

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

OCTOBER 1, 1949

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SEEDS TREE—SHRUB—PERENNIAL **HERBST BROTHERS**
FLOWER—VEGETABLE—GRASS 92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

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Order Now for Fall or Spring Delivery!

All these trees are well grown at Shenandoah—good caliper and well rooted, properly pruned and carefully graded. These trees, as well as Hardy Fruits, Shrubs, Hedge, Vines, etc., are available for shipment from Shenandoah after October 15. Send us your orders now as all Fall Stock is fresh dug just before shipping.

Items starred (*) are available in Spring only.

Our Fall Trade List is most complete and attractively priced. If you did not receive your copy, write today using your letterhead.

ASH, American White and Green		ELM. Vase	Per 100	POPLAR, Simon and Chinese	Per 100
5 to 6 ft.		6 to 8 ft.	\$100.00	4 to 5 ft.	\$35.00
6 to 8 ft.		8 to 10 ft.	150.00	5 to 6 ft.	50.00
8 to 10 ft.		1 1/4 to 1 1/2 ins.	185.00	6 to 8 ft.	75.00
1 1/2 to 2 ins.					
BIRCH, European White		HACKBERRY		PRUNUS CISTENA	
4 to 5 ft.	70.00	3 to 6 ft.	75.00	12 to 18 ins.	35.00
5 to 6 ft.	100.00	6 to 8 ft.	110.00	18 to 24 ins.	50.00
6 to 8 ft.	125.00	8 to 10 ft.	165.00	2 to 3 ft.	65.00
8 to 10 ft.	175.00			3 to 4 ft.	80.00
CATALPA Bungei		HONEYLOCUST, Gleditsia (Thorny)		PRUNUS Newport	
4 to 5 ft., 1-yr. hds.	100.00	3 to 6 ft.	70.00	18 to 24 ins.	50.00
5 to 6 ft., 1-yr. hds.	125.00	6 to 8 ft.	110.00	2 to 3 ft.	65.00
4 to 5 ft., 2-yr. hds.	125.00	8 to 10 ft.	165.00	3 to 4 ft.	80.00
5 to 6 ft., 2-yr. hds.	150.00			4 to 5 ft.	100.00
CRAB, Hopsa Flowering		HONEYLOCUST, Gleditsia (Thornless)		PRUNUS PERSICA	
4 to 5 ft.	60.00	3 to 6 ft.	80.00	3 to 4 ft.	50.00
5 to 6 ft.	75.00	6 to 8 ft.	125.00	4 to 5 ft.	70.00
6 to 8 ft.	90.00	8 to 10 ft.	200.00		
CRAB, Flowering Malus		LINDEN, American		Cameliaeflora	Peppermint Stick
2 to 3 ft.	45.00	5 to 6 ft.	100.00	Helen Borchers	Red Flowering
3 to 4 ft.	60.00	6 to 8 ft.	150.00	Iceberg	
4 to 5 ft.	75.00	8 to 10 ft.	200.00		
5 to 6 ft.	100.00			PRUNUS TRILOBA	
Aldenhamensis	Mount Arbor Special	LOCUST, Black		18 to 24 ins.	50.00
Coronaria	Parkmani	5 to 6 ft.	55.00	2 to 3 ft.	65.00
Eleyi	Red Silver	6 to 8 ft.	70.00	3 to 4 ft.	80.00
Floribunda	Redvein	8 to 10 ft.	85.00		
Floribunda Purpurea	Sargentii			RED BUD	
Ioensis	Scheideckeri	*MAGNOLIA SOULANGEANA		18 to 24 ins.	35.00
CRAB, Flowering (Shrub form)		(Balled in moss)		2 to 3 ft.	50.00
2 to 3 ft.	50.00	*2 to 3 ft.	225.00	3 to 4 ft.	75.00
3 to 4 ft.	65.00	*3 to 4 ft.	350.00	4 to 5 ft.	100.00
4 to 5 ft.	80.00			SYCAMORE, American	
Hopsa	Eleyi	*MAGNOLIA SOULANGEANA NIGRA		5 to 6 ft.	100.00
CRAB, Bechtel Malus		(Balled in moss)		6 to 8 ft.	125.00
2 to 3 ft.	50.00	*2 to 3 ft.	225.00	8 to 10 ft.	175.00
3 to 4 ft.	75.00	*3 to 4 ft.	350.00	1 1/4 to 1 1/2 ins.	225.00
4 to 5 ft.	110.00			THORN, Crataegus Arnoldiana	
ELM, American White		MAPLE, Box Elder		5 to 6 ft.	275.00
5 to 6 ft.	50.00	5 to 8 ft.	75.00	6 to 8 ft.	400.00
6 to 8 ft.	75.00	8 to 10 ft.	90.00		
8 to 10 ft.	100.00	1 1/2 to 2 ins.	125.00	THORN, Cordata, Crusgalli	
1 1/4 to 1 1/2 ins.	125.00			and Punctata.	
1 1/2 to 1 3/4 ins.	200.00	MAPLE, Schwedler		3 to 4 ft.	150.00
1 3/4 to 2 ins.	250.00	*5 to 6 ft., whips	100.00	4 to 5 ft.	200.00
2 to 2 1/2 ins.	325.00	*6 to 8 ft., whips	125.00	5 to 6 ft.	275.00
2 1/2 to 3 ins.	400.00	*8 to 10 ft., whips	150.00	6 to 8 ft.	400.00
ELM, Chinese (Transplants)		*5 to 6 ft., br.	165.00		
4 to 5 ft.	35.00	6 to 8 ft., br.	225.00	THORN, Mollis	
5 to 6 ft.	50.00	8 to 10 ft., br.	325.00	3 to 4 ft.	110.00
6 to 8 ft.	75.00			4 to 5 ft.	150.00
8 to 10 ft.	100.00	MAPLE, Silver		5 to 6 ft.	200.00
1 1/4 to 1 1/2 ins.	125.00	5 to 6 ft.	50.00	6 to 8 ft.	275.00
1 1/2 to 1 3/4 ins.	200.00	6 to 8 ft.	85.00	8 to 10 ft.	400.00
ELM, Chinese (Root-pruned Trees)		8 to 10 ft.	110.00	THORN, Oxycantha, Coccinea	
4 to 5 ft.	22.00	1 1/4 to 1 1/2 ins.	150.00	and Prunifolia.	
5 to 6 ft.	35.00	1 1/2 to 2 ins.	200.00	3 to 4 ft.	150.00
6 to 8 ft.	50.00	MOUNTAIN ASH, European		4 to 5 ft.	200.00
8 to 10 ft.	70.00	5 to 6 ft.	125.00		
1 1/4 to 1 1/2 ins.	90.00	6 to 8 ft.	160.00	WILLOW, Babylonica	
ELM, Lake City		8 to 10 ft.	200.00	4 to 5 ft.	35.00
6 to 8 ft.	100.00	POPLAR, Carolina		5 to 6 ft.	60.00
8 to 10 ft.	150.00	5 to 6 ft.	35.00	6 to 8 ft.	90.00
1 1/4 to 1 1/2 ins.	185.00	6 to 8 ft.	50.00	WILLOW, Niobe and Wisconsin	
ELM, Moline		8 to 10 ft.	75.00	Weeping	
6 to 8 ft.	100.00	1 1/4 to 1 1/2 ins.	100.00	5 to 5 ft.	35.00
8 to 10 ft.	150.00	POPLAR, Cottonwood Cottonless		5 to 6 ft.	60.00
1 1/4 to 1 1/2 ins.	185.00	5 to 6 ft.	50.00	6 to 8 ft.	90.00
1 1/2 to 1 3/4 ins.	250.00	6 to 8 ft.	75.00	8 to 10 ft.	110.00
1 3/4 to 2 ins.	325.00	8 to 10 ft.	100.00	1 1/4 to 1 1/2 ins.	135.00
2 to 2 1/2 ins.	400.00	1 1/2 to 2 ins.	125.00	1 1/2 to 1 3/4 ins.	175.00
		POPLAR, Lombardy (Low branched)		WILLOW, Pussy	
		5 to 6 ft.	28.00	18 to 24 ins.	22.00
		6 to 8 ft.	40.00	2 to 3 ft.	30.00
		8 to 10 ft.	50.00	3 to 4 ft.	40.00
		1 1/4 to 1 1/2 ins.	60.00	4 to 5 ft.	60.00
		1 1/2 to 2 ins.	90.00	5 to 6 ft.	90.00



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AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the October 15 issue close Monday, October 3.
Mail copy to arrive at Chicago by that date—no later!

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are



No digging, no wrapping, nothing for you to do but ring up the sale! Easy to BUY too; customers just pick up the plants they like best and carry them home.

Streamline YOUR business this modern way, and you'll soon find that Cloverset Pots mean a big increase in your profits. They protect roots from damage, save handling time and expense, make more attractive displays and cost so little you can give them away. Top choice for nurseries which guarantee proper growth, because plants are well started and are easy for even an inexperienced gardener to transplant safely. And, because potted plants are always ready for sale, they extend your profitable cash-and-carry season through all spring, summer and fall!



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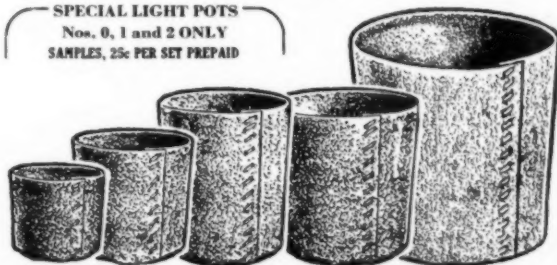
Some bookings are still open for our 2-reel film that shows in full color how we plant, handle and sell plants in Cloverset Pots. There is no charge for the use of this film. Write for details.

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SET OF SAMPLES — ALL SIZES AND WEIGHTS, 50¢ PREPAID

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Nos. 0, 1 and 2 ONLY
SAMPLES, 25¢ PER SET PREPAID



No. 0
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Perennials

No. 1
For larger
Perennials

No. 2
For roses
and
shrubs.

No. 3
For large
shrubs and
transplanting.

No. 4
For large shrubs,
fruit trees,
evergreens.

Practical Nurserymen for Over 26 Years

Cloverset
105th Street and Broadway

Flower Farm
Kansas City 5, Missouri

AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

"FREE" OFFERS FACE BAN.

For years some magazines and newspapers have declined advertisements that proclaimed a "free" offer in prominent type when, as a matter of fact, the "free" merchandise was part of a lot offer for payment or, at best, a bonus given in consideration of a purchase. The practice of such "free" offers has persisted, however, in some fields more conspicuously than others.

Now it is anticipated that the Federal Trade Commission before long will issue an order prohibiting the advertising of "free" offers unless actually there is no requirement to purchase. Not many nursery firms have made use of this device. But if anything of the kind is included in the copy for your catalog or your advertising program for the coming season, it should be scrutinized to see if it is worded to convey the actual intent, and not mislead buyers or prospects.

Most offers of "free" merchandise are, in fact, misleading, though only a childlike mind would be misled. More accuracy in advertising is to be commended, and the F.T.C. action will not come too soon.

GIFT CERTIFICATES.

The gift certificates provided members of the American Association of Nurserymen two years ago were given inadequate promotion, in the minds of some nurserymen, because of lack of imagination in offering this service. There are many occasions besides Christmas for which the gift certificates might be used.

Friends of expectant brides give showers at which gifts of a certain kind, whether linen, glass or what-not, are brought by those invited. When showers are numerous for one bride, her friends run out of suitable categories. One hostess conceived the idea of the group attending the shower presenting a tree to the guest of honor and her groom-to-be, inasmuch as they contemplated building a home. A local nurseryman made it possible to present the gift in style, in the form of an A. A. N. gift certificate. The idea was so enthusiastically received that it was repeated for another recipient of a

shower in the same community. Perhaps it will spread farther.

Our old methods of selling nursery stock undoubtedly provide the bread and butter for nurserymen. Novelty methods provide the jam. Ingenious sales management can add to profits from such sources.

HANDLING INQUIRIES.

The old adage about first impressions being often the strongest is at times forgotten by businessmen, particularly those who deal by mail rather than in person with their customers. The size of the business has little to do with this matter, because some large corporations are notable laggards, while some small enterprises are extremely alert, perhaps because the boss opens his own mail and sees to it that each new prospect receives expert and expeditious welcome. There are two aspects that deserve consideration, and one is not less important than the other. The first is prompt attention to inquiries, and the second is adequate response.

In dealing with the public, an advertiser may receive a good many inquiries for catalogs and information from curiosity seekers or persons with but a casual interest in one's merchandise. But when a businessman takes time to write a letter, or even send a post card, he usually is in earnest. He is thinking about your product, and the sooner his inquiry is answered, the less likely he is to lose interest or forget it. There is every reason, therefore, to insist upon promptness in replying to inquiries.

To insure such promptness the best way is to set up some sort of system when advertising is undertaken. Be sure your price lists or literature is ready when the advertisement is placed. Nothing cools the prospect like the receipt of a post card or letter stating that his inquiry has been received and will be given fuller attention as soon as the printer delivers the material sought. It is a question whether one may as well omit such a letter and just send the literature later, for it brands the company as one unprepared or unsystematic in its operations. Catalogs, or whatever are to be sent in response to inquiries, should be ready to be addressed and mailed the day each inquiry is received. Then the prospect knows that you are ready and anxious to do business with him.

Whether a letter is sent at the

same time as the catalog depends upon circumstances. If the probable size of orders justifies it, a letter is a more emphatic form of greeting a prospect than just mailing a catalog or price list. But that again depends upon the letter sent. If it is a perfunctory note of two or three lines, perhaps badly mimeographed and without either address or signature, it might better be omitted. If you are going to send a letter, make it a real letter, one which will make a strong and favorable impression upon the recipient.

That does not mean time need be taken to dictate a letter in response to each individual inquiry. Prepare a direct and sincere reply to be sent to the first inquiry, and in all probability the same letter will serve for most of those following. If one general form letter will not suffice, sometimes it is possible to prepare a form letter of general outline, in which one or two paragraphs may be changed as the circumstances require. But a form letter is of value if it is known as such only to the sender; if its language or appearance make it likewise obvious to the recipient, it is not a good letter; in fact, it may not even be a real business letter at all from a sales standpoint.

Replying to inquiries adequately means not only supplying the material requested by the prospective customer and possibly sending a letter such as has been mentioned, but it should also include attention to any individual inquiries about your merchandise. If a prospect takes the time to write a letter containing several questions, beyond his request for a catalog or price list, it should indicate that he has already been giving thought to what you have to sell. If he receives a catalog and no reply to his queries, his interest is dampened and maybe turned into resentment.

Each step of a sale which is conducted by mail should receive scrutiny and study. When the customer is met in person, his conversation keeps us on our toes, and we naturally react to his attitude. In selling by mail, the same effort must be made to welcome and please the customer that one does in person. This thought deserves consideration in business that is carried on with old customers. But it is doubly important in respect to new ones, for, as was said at the outset, first impressions are often the strongest.

California Convention at Santa Barbara

Scenic Santa Barbara was host to over 250 nurserymen, their wives and families, September 13 to 15, for the thirty-ninth annual convention of the California Association of Nurserymen. Headquarters were at the Mar Monte hotel, and the meeting hall was directly across the boulevard in the Native Sons Beach Club, on the shores of the Pacific ocean. The first and last days of the convention were devoted to meetings, and the middle day was given up to a garden tour and sports. The evening programs abounded in good food and entertainment, with a cocktail party and dance Tuesday at the hotel, a superb steak barbecue and dance Wednesday at the American Legion patio, and the banquet, awards, floor show and dance Thursday at the Restaurante del Paseo. Credit for the excellent plans went to Bert Kallman, Kallman's Garden Nursery, Santa Barbara, who is president of the local chamber of commerce.

Officers Elected.

A nominating committee representing the association's various chapters, composed of Bert Kallman, chairman; Jack McDonnell, Clyde Von Grafen, Gene Fowler, J. Awdry Armstrong, Paul Kleinsorge, Tom Sand, Willis Stribling and Stanley Spaulding, presented a slate Thursday morning. As the concluding item of business at the afternoon session the three nominees were elected to office. Syd Whitehorn, Sierra Nursery & Seed Co., Fresno, who was vice-president the past year and a director of the association for the

past eight years, was elected president. W. S. (Bill) Clark, Germain's, Van Nuys, is the new vice-president, and Walter Tecklenburg, Teck's Nursery, Lodi, the new treasurer. Elmer Merz, Sacramento, was rehired as executive secretary.

After the call to order was given Tuesday morning by Chairman Kallman, Mayor Norris Montgomery wel-

come the association to Santa Barbara and President Frank James, E. James Nursery, Oakland, responded on behalf of the nurserymen. In a brief address Mr. James told of the year's accomplishments of the association, including the first California nurserymen's short course last May, which, he said, recorded the highest attendance of any nurserymen's short course in the world.

Program chairman for the convention was Howard Brown, of the Cali-

fornia Polytechnic School, San Luis Obispo, who was recently elected president of the Tri-County chapter of the California Association of Nurserymen. He introduced each speaker, the first of whom was William E. Hammond, western division manager of the United States Chamber of Commerce. He answered the title of his talk, "Can We Afford



New officers, left to right: Walter Tecklenburg, treasurer; Syd Whitehorn, president; W. S. Clark, vice-president.



Left to right: Bert Kallman, convention chairman; Frank James, president; Elmer Merz, executive secretary; Syd Whitehorn, president.

More Government?" with a decisive no and then explained why. Today this country has so much government, he stated, that it requires thirty-one and one-half per cent of the national income, which is now at the highest level in history, to pay the costs of operation, and most of this is for federal government. History has shown that the breaking point in governments is reached when the cost is forty to fifty per cent of the national income.

A second reason for decreasing our government is to decrease the national debt load each citizen has to bear. About forty years ago this was only about \$15; today it is rapidly approaching \$2,000 despite the fact that the average American already spends twenty-five per cent of his time working to pay taxes to support the government.

Secretary Merz Reports.

Mr. Hammond lauded the Hoover report, but feared it would be scuttled by politicians. The need to make government smaller transcends politics, business and other selfish motives, and a start, no matter how infinitesimal, must now be made in this direction, the speaker concluded.

The report of the executive secretary, Elmer Merz, revealed that the association has 544 members, sixty

of whom were new this year. This membership represents eighty per cent of the dollar volume business of the nursery industry in California. While some 4,000 nurseries are licensed in the state, these include many department and hardware stores and other enterprises selling nursery stock which would not be considered for membership.

Because members of the Los Angeles chapter came from such an extensive area that it reduced attendance at many meetings, this chapter has been disbanded, with two new ones formed in its place. They are the new Los Angeles chapter and the Sunset chapter. Their bylaws were approved by the state board of directors September 12. During the year the association gained two other chapters, the Inland Valley chapter and the Centinella Valley chapter.

Secretary Merz stated that the group compensation insurance program had 223 participating firms, 106 having entered at the start. This year over \$15,000 was refunded to members in the plan.

Special mention was given J. Awdry Armstrong and Ray D. Hartman, who with Mr. Merz served as a legislative committee to sift the many bills before the state legislature and to determine the association's stand on them.

Since the first California nurserymen's short course was so successful, another is planned for next spring. A planting booklet is soon to be published, and members may order copies now. An advertising mat plan is an-

other service to be available to members.

In closing Mr. Merz cited figures for the period 1940 to 1949 to show that, of the money spent for agricultural products, the percentage spent for nursery products had decreased. If the industry lost business when competition from other products was negligible, what is ahead now that there is keen competition for the consumer dollar? Mr. Merz urged that the industry advertise itself and sell itself to the public.

A. A. N. Activities.

C. B. (Bert) Miller, Milton, Ore., recently elected executive committee-man for region 6 of the American Association of Nurserymen, told of A. A. N. activities since the annual convention in July. Because the problem of transportation and transportation rates is of increased importance to the trade, a new and larger transportation committee has been formed, composed of George Rose, Shenandoah, Ia., chairman, and seven other members from over the country. The services of a legal or traffic attorney are to be available to this committee.

Steps are being taken to select a new agent to handle the A. A. N. market development and publicity program. Blind advertisements were run in New York newspapers, and the 133 replies received were discussed last month at a meeting at New York of James I. E. Ilgenfritz, president; Howard Taylor, past president; R. P. White, executive secretary, and Peter Cascio, executive

A. A. N. APPOINTS PUBLICITY DIRECTOR.

The American Association of Nurserymen announces the appointment of Howard P. Quadland to handle the public relations and publicity program of the association. For the past five years he has been director of public relations and publicity of Hazard Editorial Offices, 295 Madison avenue, New York city. Engaged in public relations work for the past twenty years, Mr. Quadland graduated from Massachusetts State College with a B.S. in floriculture and horticulture. He is president of the Industrial Publicity Association and a member of the Public Relations Society of America and the American Association for Advancement of Science.

Selected from 133 applicants, he was the unanimous choice of the members of the A. A. N. market development steering committee and the association officers who met with them last month. He began his work immediately upon his appointment.

committeeman for region 2. Six of the applicants were selected to submit test stories which the committee was to judge in mid-September.

Luncheon Address.

While the ladies had luncheon at Eaton's restaurant, the men had a luncheon at the Mar Monte hotel and heard an address on "The Welfare State," by Louis Lancaster, vice-president of the County National Bank & Trust Co., Santa Barbara. He warned that our original form of republican government, based on a system of checks and balances to protect any individual or group from another, was rapidly being destroyed and we were nearing domination by the government in a welfare state. He discussed the Brannon farm plan, federal aid to education, state medicine and increased taxes as steps in this direction.

Better Merchandising.

The afternoon session was opened with a talk on "Better Merchandising" by Hurum E. Reese, president of Hurum E. Reese Co., Los Angeles hardware manufacturer, factory representative, wholesaler and retailer. One phase of the business on which many nurserymen had fallen down, said Mr. Reese, is in selling garden accessories. Department store sales of these items have increased fifty-nine per cent and hardware stores sales eighty-four per cent, and more than one-fourth of the department stores and more than one-half the hardware stores are increasing their floor space devoted to garden depart-

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Bert Kallman and Frank James Present Cup to W. B. Clarke.

Twenty-fifth Shade Tree Conference

By Noel B. Wyson

The silver anniversary meeting of the National Shade Tree Conference was held August 22 to 26 at the Lord Baltimore hotel, Baltimore, Md., and each session of the skillfully planned, informative program was well attended.

Four hundred eighty-nine members and guests registered for the 5-day conference, representing thirty-one states, the District of Columbia and Canada. The five states with the greatest representation were Ohio, with 74 members, New York, 59; Maryland, 43; Pennsylvania, 36, and New Jersey, 32. Connecticut, Illinois, Massachusetts, Michigan and Virginia each were represented by twenty or more members.

Officers Elected.

At the business meeting, officers for the ensuing year were elected as follows: President, Dr. Ray R. Hirt, head of the department of forest botany and pathology, New York State College of Forestry, Syracuse; vice-president, E. W. Higgins, Frost & Higgins Co., Arlington, Mass.; secretary-treasurer, Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus; editor, Dr. P. E. Tilford, executive secretary of the National Arborist Association, Wooster, O. Elected to the executive committee for a 2-year term were Orville Spicer, Bartlett Tree Expert Co., Stamford, Conn.; C. M. Blume, Blume System Tree Experts, Houston, Tex., and Dr. L. R. Tehon, Illinois Natural History Survey, Urbana, Ill. Oscar F. Warner, landscape forester, Waterbury, Conn., was elected to the nomenclature and standards committee.

The conference opened Monday afternoon, August 22, with registration. At an evening meeting, "The Design and Plants of Colonial Williamsburg" was discussed in an illustrated lecture by Vernon M. Geddy, counsel for Colonial Williamsburg, Williamsburg, Va.

The twenty-fifth annual conference was formally opened by President Norman Armstrong, White Plains, N. Y., Tuesday morning. The members were welcomed to Baltimore by F. W. Besley, state forester of Maryland.

Foliage Sprays.

Dr. Damon Boynton, department of pomology, Cornell University, Ithaca, N. Y., spoke on the subject,

"Fertilizer Applications by Foliage Sprays." Many materials have been tried as nutrient foliage sprays, including Epsom salts, urea, iron salts and others, said Dr. Boynton, with varying results. Nutrient sprays are not always feasible, he stated, because of differences in tree requirements, efficiency of absorption of the various elements by the leaves, the cost of application and other factors.

Dr. Boynton explained that five sprays might be necessary to supply the amount of nitrogen a tree needed, while one spray might furnish the required amount of boron. The efficiency of absorption tends to vary with the tree and the nutrient element applied; urea, Epsom salts and boron will be absorbed, but iron salts are not readily taken up by the leaves. Zinc sprays often are effective on citrus species, but not on walnut and sweet cherry. Much of the material applied as a foliage spray is wasted, for it runs off the leaves and drops to the ground before it can be absorbed; often no more than twenty-five per cent is utilized by the foliage.

The degree of absorption varies considerably with the leaves on an individual tree and the portion of the leaf to which the spray is applied; terminal leaves absorb much more of the spray material than do the inner leaves; the lower surfaces of the leaves will absorb more than the upper surfaces. The greater portion of the material absorbed is taken in by the leaves soon after the spray is applied; in urea sprays 22.4 per cent was absorbed within five minutes after application, 41.5 per cent within the first hour and 52.6 per cent after nine hours.

The advantages of applying nutrients in spray form to the foliage include the following: (1) Fixation of elements in the soil may make soil applications of fertilizer materials ineffective; foliage sprays overcome such difficulty. (2) Slow response of trees to soil applications may justify foliage sprays; they may start declining trees on the road to recovery. (3) Elements in the soil may not be in good balance, and it may take three or four years to correct this condition. Foliage sprays often are useful in such cases. (4) Early spring sprays of urea may supply nitrogen to trees, particularly to apple or other fruit trees, when they need it most, and may help in the early setting of fruit. (5) In cases of extreme deficiency of boron in the soil, borax sprays are beneficial. (6) Urea sprays often are as effective as soil applications in supplying nitrogen; if the soil is wet, sprays may be even more effective as a means of getting needed nitrogen to the tree.

Stressing the fact that there are many complexities in the matter of spraying to fertilize trees, Dr. Boynton said that any nutrient spray application should be made only after careful analysis of the needs of the tree and study of the factors that might influence results. "Any shotgun spray mixtures and secret formulas designed to cure all tree troubles are quackery," he added.

Trace Elements.

Dr. Harley L. Crane, division of fruit and vegetable crops and diseases, U. S. D. A. plant industry station, Beltsville, Md., who prepared a paper on the subject, "Trace Elements and Their Role in Plant Nutrition," was unable to attend the conference because of illness. His paper was read by Dr. Curtis May, division of forest pathology, U. S. D. A., Belts-



RAY R. HIRT.

Newly elected president of the National Shade Tree Conference, Dr. Ray R. Hirt is head of the department of forest botany and pathology at the New York State College of Forestry, Syracuse. He has been a faculty member there since 1921.

Dr. Hirt is the author of various papers discussing the control of wood decay and tree diseases. He has been associated with the division of forest pathology of the United States Department of Agriculture since 1927 as an agent doing research on blister rust control. He received his Ph.D. degree from the New York State College of Forestry in 1928.

ville. In discussing the nutritive requirements of plants, Dr. Crane stated that fifteen or more chemical elements were necessary for plant growth. These are obtained from the air and from the soil. Since different soil types contain different nutritive elements, or vary in the ability to supply these elements to plants, soil nutritional deficiencies are of common occurrence. Plants take from the soil available nutritive elements, and in time these supplies may be exhausted. This has led to the practice of applying fertilizer materials in the soil.

Fertilizer materials should contain more than the essential elements—nitrogen, phosphorus and potash. They should also contain the minor elements, for if these are omitted, they in time become more important to plant growth than the essential elements. Four of the better known minor elements are copper, manganese, zinc and boron. A deficiency in the soil of any of the minor elements may result in a reduced growth rate of plants. Dr. Crane emphasized that all elements must be kept in balance; an oversupply of one element may cause deficiency of another. Spray applications may be helpful in correcting deficiencies temporarily, but applications to the soil are generally preferable. Because of leaching soil applications every year may be necessary, said Dr. Crane.

Public Relations.

Although a number of ladies regularly attend the annual meetings of the National Shade Tree Conference, few, if any, have appeared as speakers on the program. It was a distinct departure from the usual, therefore, when Mrs. Garrett Smith, director of the New Jersey Federation of Shade Tree Commissions, Plainfield, N. J., was introduced as the next speaker. In her able discussion of "Planning for More Effective Public Relations," Mrs. Smith said that the biggest job of tree men is not trees, but owners of trees. They and the public in general must be persuaded that trees are valuable. This goal can be attained, asserted Mrs. Smith, through a carefully planned and well-executed educational program. The value of trees and the benefits derived from them should be publicized through the press, the radio, meetings and every other way possible. Public officials on city, county, state and national levels should be kept informed and interested in shade tree welfare. It is important, she warned, that all publicity issued by profes-

ARBORISTS' MEETING.

Members of the National Arborist Association who were in attendance at the National Shade Tree Conference, Baltimore, held a closed meeting for the purpose of electing officers for the ensuing year and to discuss problems pertinent to the operation of a successful tree service business. Eighty-five members of the association were present.

Officers were elected as follows: President, C. L. Wachtel, Wachtel Tree Science & Service Co., Wauwatosa, Wis.; first vice-president, W. P. Morrow, Morrow Tree Co., Sewickley, Pa.; second vice-president, C. M. Blume, Blume System Tree Experts, Houston, Tex.; secretary, Sidney McNeal, McNeal Tree Service, Tiffin, O.; treasurer, O. F. Warner, Oscar F. Warner Co., Waterbury, Conn. Clyde C. Hartney, Hartney Tree Surgeons, Inc., Dedham, Mass., was elected to the board of directors for a term of three years, and Albert W. Meserve, A. W. Meserve Co., United Arborists, Danbury, Conn., as past president of the association, will serve on the board of directors for a term of one year. Other members of the board are B. C. Deibel, Cherokee Tree Expert Co., Buechel, Ky., and H. N. Engledow, Midwestern Tree Experts, Indianapolis, Ind.

R. D. Lowden, Needham, Mass., spoke on "Tree Cavity Treatments," briefly tracing the history and development of this phase of arboriculture. Materials that have been used at various times in filling cavities include lime, ashes, sand, manure, stone, cork, wood, concrete, asphalt and many others. "Costs of Tree Care Operations" was discussed by C. M. Blume, of the Blume System Tree Experts. Using a chart to illustrate his method of cost accounting, Mr. Blume emphasized that nobody could conduct a

tree business successfully without knowing exactly what each phase of an operation should cost.

Hilliard L. Smith, of the Dow Chemical Co., Midland, Mich., in discussing "Chemical Control of Brush," said that much experimental work was still being done with 2,4-D, 2,4,5-T and other herbicidal chemicals. He warned that many of the new compounds are highly volatile. Drift, or even dust particles laden with the spray material, could cause severe damage to sensitive plants. One of the newer chemicals, he stated, that offers considerable promise in the control of crab grass, quack grass, Johnson grass and Bermuda grass, is TCA, or tri-chloro-acetic acid.

John Z. Duling, Muncie Tree Surgery Co., Muncie, Ind., speaking on "2,4-D Injury to Trees," related a number of experiences which emphasized need for caution in applying this herbicide. In one instance, where some of the material was spilled on the floor of an open storage building, near-by susceptible vegetation was injured by wind carrying the fumes to the foliage. He warned that hose used in applying 2,4-D, particularly the esters, should never be used in spraying insecticides.

An interesting demonstration of "How to Teach Safety" was given by Karl Kuemmerling, forester to public utilities, Canton, O. Bringing a 5-man crew to the speakers' platform, he conducted a typical unrehearsed safety meeting on the assembling, maintenance and operation of a standard-make chain saw.

John Woodruff, of the Oscar F. Warner Co., Waterbury, Conn., spoke on "Experiences in Treating Elms with Oxyquinoline," to combat the Dutch elm disease. He said that subsurface irrigation, completed before the disease-carrying bark beetles become active in the spring, had been found to give reasonably good results in preventing injury to the trees.

Another method of treatment to control the Dutch elm disease was explained by H. N. Engledow, Midwestern Tree Experts, Indianapolis, Ind., in his discussion of "Experiences in Spraying Elms with DDT." In this method DDT, in accordance with formulas developed by the U.S.D.A., is applied by means of hydraulic sprayers or mist blowers to the trunk and branches. This method also is a preventive rather than a curative treatment. Mr. Engledow warned that unless considerable caution is used in application, the material might injure sensitive vegetation.



C. L. Wachtel.

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Nut Growers Meet at Beltsville

By Harry W. Dengler

The fortieth annual meeting of the Northern Nut Growers' Association, held September 6 to 8 at the U. S. D. A. plant industry station, Beltsville, Md., drew visitors from nearly every section of the United States in a record-breaking attendance. One member, H. A. English, Vancouver, B. C., traveled four days and nights to participate in the program. President H. F. Stoke, Roanoke, Va., presided over all sessions.

Special events for the ladies included a conducted tour of the agricultural research center grounds and an inspection trip through the U. S. D. A. home economics laboratories. Also included was a memorable 80-mile trip to Mount Vernon, Alexandria, Va., and the National cathedral in Washington, D. C.

A highlight of the meeting was the announcement of the gift of \$1,000 from Archer M. Huntington, Bethel, Conn., to be used for the furtherance of the objectives of the Northern Nut Growers' Association. Mr. Huntington, a life member of the association, has long been interested in chestnut breeding work.

New Officers.

Mrs. Mildred Jones Landoc, Erie, Ill., was elected president. Mrs. Landoc formerly served faithfully as the secretary for many years; she is the daughter of the late J. F. Jones, well known nut nurseryman at Lancaster, Pa.

All other officers were reelected: Vice-president, Dr. L. H. MacDaniels, Cornell University; treasurer, Sterling A. Smith, Vermilion, O.; secretary, J. C. McDaniel, Tennessee

department of agriculture, Nashville, Tenn.

The annual banquet of the association was held at the Varsity grill, College Park, Md. Arrangement for this pleasant affair was capably made by Dr. H. L. Crane, of the plant industry station. Served on delightfully decorated tables, the excellent dinner was followed by an evening of fun, seriousness and good-fellowship.

The program consisted of musical selections and a hilarious skit of the experiences of a country lass on a shopping trip to the "big city." F. B. Linton told some little known stories and anecdotes about Abe Lincoln. Reminiscences of amusing experiences by various members while searching for unusual nut trees closed the evening program. Dr. Crane was elected "big nut" for the ensuing year.

Nut Storage Discussed.

Of special interest to nurserymen was the paper, "Storage of Chinese Chestnuts," by Dr. Harad E. Hammar, U. S. pecan field laboratory, Albany, Ga. Heat of the earth and sun had a detrimental effect on both the germinating and eating qualities of Chinese chestnuts, he said. For best results, Dr. Hammar reported, nuts should be picked up at intervals of no longer than two to three days and placed immediately in cold storage. Covered 50-pound lard pails, with one hole punched in the top the size of a twenty-penny nail for ventilation, or one-gallon friction-top syrup cans with a single hole the size of a shingle nail, serve as satisfactory containers.

Dust disinfectives for the control of molds during storage apparently impeded the germination of Chinese chestnuts. Disinfectives in solution did not appear to injure the germinating quality of the stored nuts. Some varieties of nuts do not store well under any condition.

Dr. John W. McKay, horticulturist, plant industry station, Beltsville, reported that top-working of promising pecan and walnut seedlings on older stocks speeds up fruiting by four or five years. The quality of nuts from trees of seedling origin can thus be more quickly determined. The coldframe grafting of proved selections on congenial seedling understocks may be a practical and useful idea to nurserymen, Mr. McKay believes.

Spencer B. Chase, Tennessee Valley Authority, Norris, Tenn., reported on experiments with growing *Juglans nigra* on *J. rupestris* rootstocks in an effort to determine the practical possibilities of producing nut crops comparable to *J. nigra* on sites adverse to *nigra* yet suitable for *J. rupestris*. While both scion and stock were compatible, *rupestris* understocks had a definite dwarfing effect on the Thomas black walnut. The experiments are still in progress.

National Arbor Ways Proposed.

Dr. Harlan P. Kelsey, East Boxford, Mass., recommended a national system of arbor ways which should be of considerable interest to nurserymen. He envisioned a carefully planned and executed system of national roadside plantings along key highways extending well into Can-



Members and Guests of Northern Nut Growers' Association on Outing Concluding Annual Meeting at Beltsville, Md.

ada and Mexico. These should be continuous in nature, extending from plant zone to plant zone. Such an arbor way system would be both ornamental and educational, Dr. Kelsey said.

Native flora could be skillfully and harmoniously blended into the natural surroundings with fruit and nut orchards and plantings of experimental natures. Side routes could be planned to lead to areas of unusual horticultural or ecological interest. Rare and unusual plants of a purely local nature and group plantings of state trees and flowers would add color and intensify tourist interest. Adequate signs, roadside parks, study areas, camp sites and picnic places should be provided, Dr. Kelsey explained.

He recommended that Congress pass a bill and appropriate the necessary funds to establish a commission to study this proposal. He suggested that members should include representatives of the United States Forest Service, the bureau of public roads, the highway research board and the national arboretum. There should be a salaried chairman and secretary.

The 30-mile Washington-Baltimore freeway, now under construction, would prove an ideal highway on which to start a national arbor way system. This would make an excellent adjunct to the national arboretum on the outskirts of the national capital, Dr. Kelsey believes.

Roadside Nut Tree Plantings.

Wilbur H. Simonson, chief, roadside section, U. S. public roads administration, Washington, D. C., discussed the uses of nut trees in relation to roadside plantings. He convincingly explained the many difficulties confronting engineers in the planning, building, landscaping and the maintenance of modern highways. "Roadside plantings," he said, "must be based on the grounds of ecology rather than emotions." Nut trees, he added, require good, deep soil, space to expand their crowns, mulching, pruning and spraying and dusting for the control of insects and diseases. Mulching presents an obviously dangerous fire hazard. The "clubbing down" of nuts not only injures the trees, but constitutes a serious menace to fast-moving traffic. Despite his apparent personal and sympathetic attitude toward nut growers' interests, Mr. Simonson believed that, in view of these factors, any extensive plantings of nut trees for roadside landscaping seemed unwarranted.

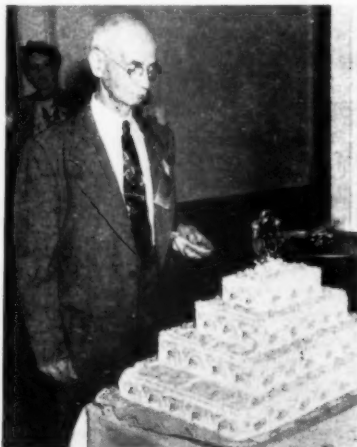
In his talk, "Persimmons, a Promising Neglected Fruit," Prof. George

L. Slate, New York agricultural experiment station, Geneva, reported that persimmons may prove useful in the lake regions of New York and in the vicinity of Boston. Early-ripening varieties, however, are needed.

The long taproots of the persimmon present a problem to nurserymen. At present trees often die the first year after transplanting from the nursery because their taproots are cut in digging. Pot-grown seedlings lessen this difficulty. Proper fertilization, mulching and a winter protection of cornstalks and waterproof wrapping should safely see newly transplanted persimmon seedlings through their first critical winter in more exposed areas, Professor Slate believes.

Holly Talk Creates Interest.

Harry W. Dengler, Maryland's extension forester and vice-president of the Holly Society of America, Col-



W. A. Easterly Cuts Cake.

lege Park, Md., discussed the possibilities of American holly as a new tree crop. He stated that the markets for this colorful Christmas greenery have never been tapped. Citing that, while it has been conceded generally that the so-called English holly, now commercially grown and sold in great quantities on the west coast, is considered more attractive than our eastern American holly, it should be remembered that this English holly is the result of over 200 years of careful selection by horticulturists. It is only within the past few years that any real interest has been generated in the selection of superior strains of American holly. Mr. Dengler believes it will not be too long before selections of hardy American holly will be discovered and propagated which will equal, if not exceed, the beauty and sale value of the west coast holly.

There is much to know and still more to learn about American holly. Trees for the commercial production of Christmas wreaths and sprays require fruiting and foliage characteristics much different from trees to be used for landscape or specimen purposes, he added.

Just recently was discovered a small American holly in New Jersey bearing one branch of an unusually attractive variegated foliage. Whether or not cuttings taken from this small branch will produce trees uniformly exhibiting this odd characteristic is not yet known. More nurserymen than ever before are interested in producing hollies of known selections and clones.

Important Topics Discussed.

Other papers presented during the first two days of the meeting included "Oaks, the Mountain Corn Crop," by John W. Hershey, Downingtown, Pa.; "Acorns for Feed, Food, Soil Conservation and the Northern Nut Growers," by Dr. J. Russell Smith, Swarthmore, Pa.; "Killing Chinese Chestnut Stumps with 2,4-D," by Dr. Harad E. Hammar, Albany, Ga.; "Will the Hickory Become Commercial Like the Pecan?" by Carl Weschcke, Hazel Hills Nursery Co., St. Paul, Minn.; "Our Experiences in Top-working Hickories," by Gilbert L. Smith, Benton & Smith Nut Tree Nursery, Wassaic, N. Y.; "A Key to Chestnut Species with Notes on Some of the Varieties and Hybrids," by Dr. Arthur H. Graves, New Haven, Conn., and "Insecticides for Nut Insect Control," by Dr. Edward H. Siegler, bureau of entomology and plant quarantine, Beltsville.

Inquiries relative to the purchase of complete proceedings of the association's meeting should be directed

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EASTERLY CUTS CAKE.

At the banquet of the Southern Nurserymen's Association during its recent convention at Chattanooga, Tenn., a huge birthday cake was set before W. A. Easterly. It celebrated the fiftieth anniversary of the founding of the association, and it honored Mr. Easterly as the only surviving charter member. The photographer caught Mr. Easterly with the knife in his hand ready to make the initial cut in the cake.

Mr. Easterly celebrated his own eighty-third birthday on January 16 of this year. Born in Virginia, he moved to Cleveland, Tenn., in 1885 and sold nursery stock for other firms until 1900, when he established the Easterly Nurseries there.

Lake County Host to Ohio Association

By Margaret Sessler

Lake county was the scene of great activity August 30 and 31, when the annual 2-day summer meeting of the Ohio Nurserymen's Association took place there. This event was sponsored by the Cole Nursery Co.,

Spot of America, Home of over 150 Nurseries." These programs included not only the special events scheduled for the day, but also a list of all members of the Lake County Nurserymen's Association. Maps of Lake

also Robert Kallay, president of the Lake County Nurserymen's Association.

The spacious grounds of the Cole home provided an ideal location for the various sports and social activities planned for the afternoon. Badminton, archery, croquet, horseshoe pitching and cards were enjoyed by the guests.

The wives of the nurserymen were entertained by a colorful style show staged by Carlisle-Allen Co., one of the leading stores at Painesville. This took place under the large trees on the east lawn of the Cole residence.

Two demonstrations of interest to the men were staged at the west end of the grounds. The first demonstration showed how the mist blower duster mounted on a jeep was used in Lake county to combat the Japanese beetle in a project sponsored by the Ohio department of agriculture and the Lake County Nurserymen's Association. The other demonstration was of a new rotary hoe in operation.

The men then enjoyed a hay ride tour of the Cole nursery. This was novel in that they sat on bales of hay in wagons which were drawn by tractors.

A ball game had been scheduled for "Nurserymen of Lake County versus the World," but a storm which broke suddenly disrupted the rest of the afternoon's program. Torrents of



Guests at Lake county meeting on lawn of Cole home, left to right: Bert W. Smith, Bernard Ward, Lewis Bookwalter, Francis Turner, Arthur L. Watson.

Painesville, assisted by the Lake County Nurserymen's Association.

Nurserymen and their wives from all parts of Ohio, as well as from New York, Pennsylvania, West Virginia, Michigan and as far west as Nebraska, gathered August 30 at the Cole residence, on West Jackson street, Painesville, where all activities had been planned for that day.

Registration began at 1 p. m., with Miss Kathryn Murphy, of Cole's, presiding at the registration desk, assisted by Ted Appel, also of Cole's, and Miss Margaret Sessler, secretary-treasurer of the Lake County Nurserymen's Association. Approximately 175 guests registered for this affair. The registration fee was turned over to the Ohio State research fellowship fund.

Each woman guest was presented a rose corsage at the registration desk. The roses for these corsages were furnished through the courtesy of the Bosley Nursery and Gerard K. Klyn, Inc., both of Mentor, O., and were grown in their fields.

Attractive hand-painted program booklets, which had been prepared by Miss Sessler, were presented to each guest. The covers proclaimed, "Welcome to Lake County, Garden

county were available, showing the location of each member's nursery.

Guests were welcomed by Mr. and Mrs. D. Barrett Cole, their son Robert and their son and daughter-in-law, Mr. and Mrs. William Cole, and



Planning croquet game on Cole lawn, left to right: William Cole, James Scarff, Mrs. William Cole, Miss Margaret Sessler, Robert D. Kallay, Mrs. Cole, D. Barrett Cole and,

rain which had been wished for during the hot and dry summer seemed unwelcome at this particular time and sent the crowd scurrying for shelter into the Cole home. Dinner was to have been served at tables set up on the lawn, and, in the event of rain, plans had been made to go to a large building at the Lake county fairgrounds. However, since there were no lighting facilities at the fairgrounds due to the storm, Gerard K. Klyn, Mentor, came to the rescue and invited all the guests to his warehouse, stating that he had a sufficient number of candles to provide lighting. The crowd then moved to Klyn's, whither Coles had their tables and food transported.

The tables were attractively decorated with flower arrangements supplied through the courtesy of C. W. Harris, of the Harris Nursery Sales, Painesville; Joseph F. Martin Co., Painesville; Wayside Gardens Co., Bosley Nursery and G. K. Klyn, Inc., Mentor.

Most of the evening's entertainment was staged in candlelight until the electric service disrupted by the storm was restored. Joseph Sarosy, of Painesville, acted as master of ceremonies. He made quite a hit with his comedy skits and humorous quiz bee, for which he awarded prizes to the winners.

Special events on the program were music by the Painesville Male Chorus directed by Frank Henck and songs by the Barber Shop Quartette, of

Chardon, O. The Lunka brothers, of Fairport, played accordion solos throughout the evening and provided music for dancing, as well as accompaniment for impromptu group singing.

John Siebenthaler, of Dayton, secretary of the Ohio Nurserymen's Association, expressed thanks to the Coles, Klyns and all members of the Lake County Nurserymen's Association for their efforts in making this event such a great success. He stated that this was the biggest and best summer meeting that the Ohio association had ever had.

He introduced other officers of the Ohio association, James Scarff, New Carlisle, president, and Bert Slemmons, Columbus, vice-president, as well as the executive committee, consisting of Walter Truby, Ironton; Paul Aukemann, South Vienna; Thomas Kyle, Tipp City, and Charles Kohankie, Painesville.

The committee in charge of all arrangements for this meeting consisted of William and Robert Cole, Robert Kallay, Charles Kohankie and Miss Margaret Sessler.

Some out-of-state nurserymen present at the event were Arthur L. Watson, Grand Rapids, president, and Bernard Ward, Lansing, secretary of the Michigan Association of Nurserymen; Bert W. Smith, landscape specialist, Pittsburgh; Harry Malter, Greening Nursery, Monroe, Mich.; Vernon Marshall, Marshall's Nurseries, Arlington, Neb.; Charles Hetz,

Fairview Evergreen Nursery, Fairview, Pa.; N. I. W. Kriek, Cottage Gardens, Lansing, Mich.

August 31 was spent in unconduted tours of the various nurseries of Lake county.

A meeting of the executive committee of the Ohio Nurserymen's Association was in the form of a breakfast meeting at the Parmly hotel, August 31. A discussion was held on the law recently passed by the state assembly which will increase the fee of all licenses to nurserymen.

The group also heard a report by Norman Janne, graduate student who is holder of a research fellowship at Ohio State University sponsored by the state association. Mr. Janne has been working on problems affecting the nursery industry, and his particular report was on methods of cold storage of nursery stock.

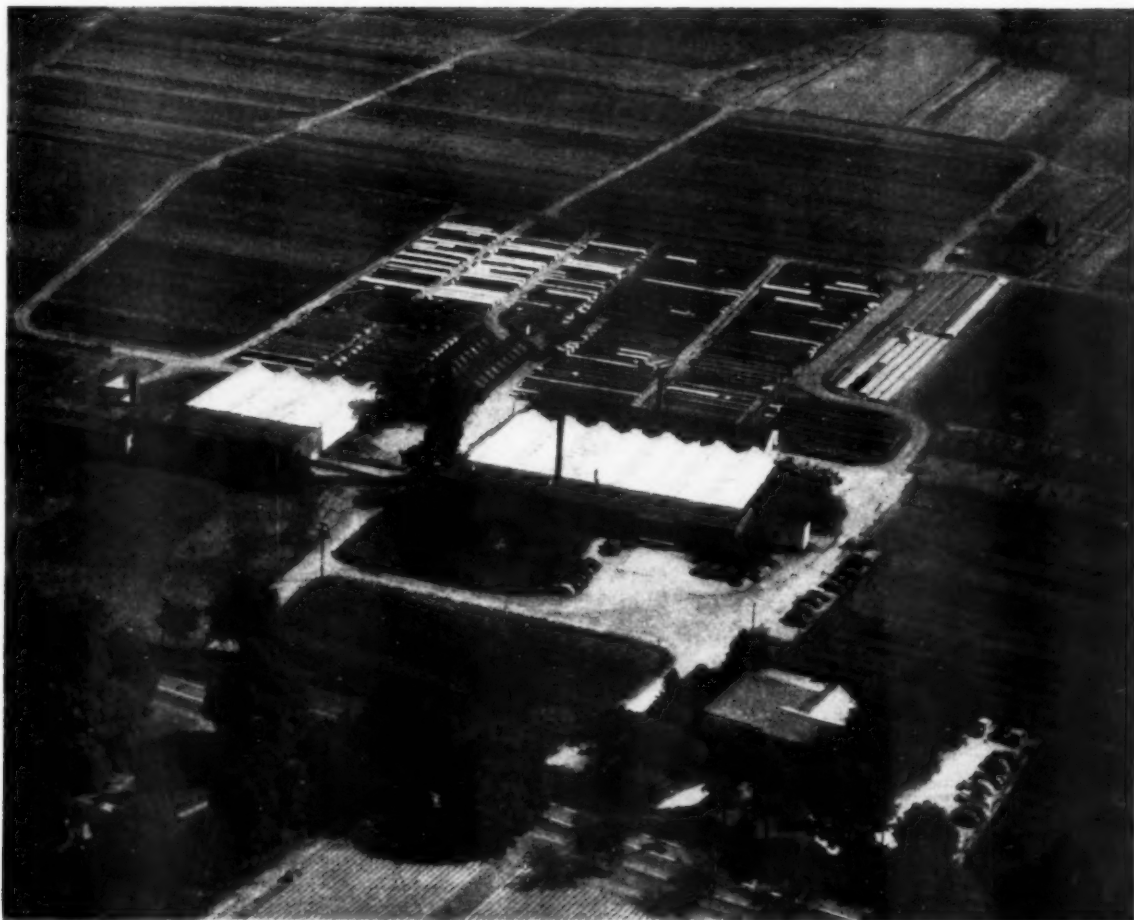
Members of the committee present were Bert Slemmons, John Siebenthaler, Walter Truby, Paul Aukemann, Thomas Kyle and Charles Kohankie. Others present were Prof. L. C. Chadwick, Ohio State University, and Harold Porter, of the division of plant industry, Ohio department of agriculture.

LAKE COUNTY NURSERIES.

Lake county, "The Garden Spot of America," is the home of over 150 licensed nurseries. The first nursery in Lake county was Storrs & Harrison's, established in 1857 on the out-



Airplane View of Nursery of Gerard K. Klyn, Inc., Mentor, O., Where Ohio Nurserymen Inspected Rose Fields.



Airplane View of Fields and Buildings of Wayside Gardens Co., Mentor, O., Visited by Ohio Nurserymen.

skirts of Painesville with their office and main buildings located on Route 20. They carried a complete line of nursery stock and employed many young boys from the community, who soon learned the fundamentals of the nursery industry. With this knowledge and increasing interest in growing plants, many of these young men decided to start nurseries of their own. Because of the newness of the nursery business in the locality and the varied interests of these individuals, there was much opportunity for specialization.

These men, along with others interested in the nursery industry who came to the county, found that, due to natural conditions unusually conducive to plant health and vigorous root growth, they were able to attain a standard which soon made Lake county the largest nursery center in the country. Because of the same natural conditions, combined with diligent study and application of scientific methods, this high standard of quality has been maintained. By the same standards, various types of

nurseries have been established, some specializing in roses, some in evergreens and ornamentals and some in perennials, while others carry a complete line of the afore-mentioned items as well as fruit trees, small fruits and bulbs.

Over twenty years ago a small group of nurserymen of Lake county banded together to form an association which would create good-fellowship, prove to be educational and help them solve problems in connection with the nursery industry. This organization, known as the Lake County Nurserymen's Association, now has a membership of fifty-eight nurserymen, including some nurserymen from other counties who are interested in this association.

The spirit of good-fellowship and cooperation has enabled them to undertake several worth-while ventures. Each winter a one-day school for nurserymen is held at Painesville, with speakers selected for their knowledge of horticulture and new trends in the nursery business. Each summer for the past three years, the

Lake County Association, in conjunction with the Ohio department of agriculture, has conducted a special project to combat the Japanese beetle in the western section of the county. The association has been participating in the annual Cleveland home and flower show with a display of nursery stock grown in Lake county.

Following is a brief descriptive outline of the various types of nurseries maintained by members of the Lake County Nurserymen's Association. This, of course, does not include all of the nurseries of Lake county.

One of the members of the association who has been given special recognition with an award for his knowledge of horticulture is Henry Kohankie, who is the owner of the Henry Kohankie & Son nursery, the largest in the county, located on the east side of Painesville, handling a complete line of evergreens, trees, shrubs and perennials.

Another important nursery is the Wayside Gardens Co., Mentor, owned and operated by J. J. Grulle-

CHOICE LINERS FOR FALL, 1949, and SPRING, 1950

	100 rate each	1000 rate each		100 rate each	1000 rate each
1000 <i>Abies lasiocarpa</i> , T. 3 to 4 ins.	\$.06	...	2000 <i>Taxus cuspidata</i> (from Jap. seeds), 1-yr. S.	\$.06	\$.05
300 <i>Buxus suffruticosa</i> , 2 1/4-in. pots.	.25	...	3000 <i>Taxus cuspidata</i> (from Jap. seeds), 2-yr. S.	.12	.09 1/2
1000 <i>Buxus sempervirens</i> , T. 4 to 6 ins.	.15	\$.05	5000 <i>Taxus cuspidata</i> , 1-yr. T. 6 to 8 ins.	.15	.14
1000 <i>Buxus</i> , Newport Blue, 3-yr. TT.	.35	.30	3000 <i>Taxus cuspidata</i> , 2-yr. T. 8 to 12 ins.	.25	.20
500 <i>Chamaecyparis obtusa gracilis</i> , pot grafts	.35	...	3000 <i>Taxus cuspidata</i> (cutback), 2-yr. T.	.30	.25
1000 <i>Chamaecyparis obtusa gracilis</i> , 2-yr. grafts	.60	.50	2000 <i>Taxus cuspidata</i> , 3-yr. T. 12 to 15 ins.	.30	.25
100 <i>Chamaecyparis filifera aurea</i> , TT. 12 to 15 ins.	.60	...	1000 <i>Taxus cuspidata</i> , 4-yr. TT.	.45	.40
500 <i>Chamaecyparis plumosa</i> , 2-yr. T.	.15	.14	1000 <i>Taxus cuspidata</i> , 5-yr. TT.	.55	.50
250 <i>Chamaecyparis plumosa</i> , 3-yr. T.	...	...	500 <i>Taxus cuspidata</i> (extra-heavy), TTT. 12 to 15 ins.	1.00	...
8 to 14 ins.	.25	...	100 <i>Taxus cuspidata</i> (No. 1, low type), 3-yr. T.	.30	...
1000 <i>Chamaecyparis plumosa</i> , TT. 12 to 15 ins.	.35	.30	250 <i>Taxus cuspidata</i> (No. 2, semiupright), 3-yr. T.	.30	...
300 <i>Chamaecyparis plumosa</i> , TT. 15 to 18 ins.	.40	.35	350 <i>Taxus cuspidata</i> (No. 3, semiupright), 3-yr. T.	.30	...
1000 <i>Chamaecyparis plumosa aurea</i> , 2-yr. T.	.15	.14	2000 <i>Taxus cuspidata andersoni</i> , 2-yr. T. 6 to 8 ins.	.30	.25
500 <i>Chamaecyparis plumosa aurea</i> , TT. 10 to 12 ins.	.35	.30	1000 <i>Taxus cuspidata browni</i> , 1-yr. T. 6 to 8 ins.	.20	.18
500 <i>Chamaecyparis pl. argentea</i> , TT. 12 to 15 ins.	.40	...	3000 <i>Taxus cuspidata browni</i> , 2-yr. T. 8 to 12 ins.	.30	.25
500 <i>Chamaecyparis pl. Gold Dust</i> , 3-yr. TT.	.35	.30	1500 <i>Taxus cuspidata browni</i> , TT. 8 to 10 ins.	.35	.30
500 <i>Chamaecyparis squarrosa</i> , K. & C., 3-yr. TT.	.35	.30	1800 <i>Taxus cuspidata browni</i> , TT. 10 to 12 ins.	.40	.35
400 <i>Chamaecyparis squarrosa</i> , K. & C., 2-yr. T.	.25	...	1000 <i>Taxus cuspidata browni</i> , TT. 12 to 15 ins.	.60	...
300 <i>Cryptomeria japonica lobl.</i> , pot grafts	.75	...	1000 <i>Taxus cusp. capitata</i> (cuttings), 2-yr. T.	.30	.25
1000 <i>Euonymus radicans</i> , 2-yr. T. 6 to 9 ins.	.30	.25	1200 <i>Taxus cusp. capitata</i> (cuttings), 3-yr. T.	.35	.30
2000 <i>Euonymus rad. coloratus</i> , T. 10 to 12 ins.	.25	.20	800 <i>Taxus cusp. capitata</i> (cuttings), 4-yr. TT. 12 to 15 ins.	.75	.70
2000 <i>Euonymus rad. coloratus</i> , TT. 10 to 12 ins.	.35	.30	1000 <i>Taxus cusp. capitata</i> (from seeds), TT. 12 to 15 ins.	1.60	1.50
3000 <i>Euonymus rad. carrierei</i> , 2-yr. T. 9 to 12 ins.	.30	.25	125 <i>Taxus cusp. capitata</i> (from seeds), TT. 15 to 18 ins.	1.75	...
500 <i>Euonymus rad.</i> , variegated, T. 6 to 10 ins.	.20	...	200 <i>Taxus cusp. capitata</i> (from seeds), TT. 18 to 24 ins.	2.25	...
2000 <i>Euonymus rad. vegetus</i> , rooted cuttings from flats	.12	.10	3000 <i>Taxus cusp. columnaris</i> , 2-yr. T. 6 to 10 ins.	.30	.25
200 <i>Euonymus radicans vegetus</i> , 1-yr. T. 6 to 9 ins.	.15	...	600 <i>Taxus cusp. columnaris</i> , 3-yr. T.	.35	.30
1500 <i>Euonymus radicans</i> , 2-yr. T.	...	...	200 <i>Taxus cusp. columnaris</i> , TT. 9 to 12 ins.	.45	...
6 to 10 ins.	.30	.25	400 <i>Taxus cusp. columnaris</i> , TT. 12 to 15 ins.	.50	...
1000 <i>Euonymus rad. vegetus</i> , TT. 8 to 10 ins.	.35	.30	400 <i>Taxus cusp. columnaris</i> , TT. 15 to 18 ins.	.75	.70
500 <i>Ilex crenata</i> , T. 6 to 8 ins.	.15	...	1000 <i>Taxus cuspidata compacta</i> , 2-yr. T.	.30	.25
500 <i>Ilex crenata convexa</i> , 1-yr. T. 6 to 8 ins.	.15	...	2000 <i>Taxus cusp. nana</i> (brevifolia), 1-yr. T. 4 to 6 ins.	.15	.14
300 <i>Ilex crenata convexa</i> , 2 1/4-in. pots.	.18	...	1000 <i>Taxus cusp. nana</i> (brevifolia), 2-yr. T. 6 to 8 ins.	.25	.20
500 <i>Ilex glabra</i> , 1-yr. T. 4 to 6 ins.	.15	...	1500 <i>Taxus cuspidata nana</i> , 4-yr. TT.	.45	.40
500 <i>Juniperus hibernica</i> , 2-yr. T. 10 to 12 ins.	.15	.14	300 <i>Taxus cuspidata nana</i> low type, 3-yr. T.	.35	.30
500 <i>Juniperus depressa plumosa</i> , T. 6 to 8 ins.	.35	.30	400 <i>Taxus cuspidata nana</i> (high type), 3-yr. T.	.35	.30
1000 <i>Juniperus glauca hetzi</i> , T. 6 to 8 ins.	.40	.35	1000 <i>Taxus cuspidata nana</i> (heavy cutback), 3-yr. T.	.35	.30
1500 <i>Juniperus pfitzeriana</i> , 2-yr. T. 4 to 6 ins.	.30	.25	1500 <i>Taxus cuspidata nana</i> , 4-yr. TT.	.45	.40
1800 <i>Juniperus pfitzeriana</i> , 1-yr. T. 8 to 12 ins.	.25	.20	1200 <i>Taxus cuspidata nana</i> , 4-yr. TT. 10 to 12 ins.	.50	.45
500 <i>Juniperus pfitzeriana</i> , 2-yr. T. 9 to 12 ins.	.35	...	500 <i>Taxus cuspidata nana</i> , 5-yr. TT. 12 to 15 ins.	.85	.75
1000 <i>Juniperus sargentii</i> , 2-yr. T.	.35	.30	1000 <i>Taxus cuspidata nana erecta</i> , 2-yr. T.	.30	.25
2000 <i>Juniperus scopulorum</i> , 2-yr. S. 4 to 6 ins.	.06	.05	800 <i>Taxus cuspidata thayeri</i> , 2-yr. T.	.30	.25
1000 <i>Juniperus suecica</i> , T. 6 to 8 ins.	.20	.18	1200 <i>Taxus cuspidata thayeri</i> , 4-yr. TT.	.45	.40
5000 <i>Juniperus virginiana</i> , 2-yr. S.	.05	.05	50 <i>Taxus cuspidata thayeri</i> , 5-yr. TT. 12 to 15 ins.	.60	...
1700 <i>Juniperus virginiana</i> , 3-yr. T. 8 to 12 ins.	.12	.12	1000 <i>Taxus densiformis</i> (new), 2-yr. T. 6 to 8 ins.	.30	.25
3000 <i>Juniperus virginiana</i> , 3-yr. T. 6 to 8 ins.	.10	.10	800 <i>Taxus intermedia</i> (spreading), 1-yr. T.	.18	.17 1/2
4000 <i>Juniperus virginiana</i> (in variety), pot grafts	.45	.40	2000 <i>Taxus inter.</i> (spreading), 2-yr. T. 8 to 10 ins.	.30	.25
500 <i>Leucothoe catesbaei</i> , 1-yr. T. 4 to 6 ins.	.20	.18	1000 <i>Taxus inter.</i> (spreading), 4-yr. TT. 10 to 12 ins.	.45	.35
2000 <i>Mahonia aquifolium</i> , T. 6 to 10 ins.	.25	.22	800 <i>Taxus inter.</i> (spreading) (cutback), 5-yr. TT.	.50	.45
8000 <i>Picea canadensis alba</i> , 3-yr. T.	.10	.09	2000 <i>Taxus intermedia hunnewelliana</i> , 2-yr. T.	.30	.25
5000 <i>Picea canadensis densata</i> , 3-yr. S.	.07	.06	700 <i>Taxus intermedia</i> (upright form), 3-yr. T. 10 to 12 ins.	.35	.30
5000 <i>Picea excelsa</i> , 2-yr. S.	.04	.03 1/2	150 TT. 12 to 15 ins.	.50	.45
2500 <i>Picea excelsa</i> , 3-yr. T.	.10	.09	300 TT. 15 to 18 ins.	.75	...
2000 <i>Picea excelsa</i> , 3-yr. S. 6 to 8 ins.	.06	.05	1000 <i>Taxus media</i> (upright), 2-yr. T. 10 to 12 ins.	.25	.20
5000 <i>Picea excelsa</i> , 1-yr. S.	.03	.02 1/2	800 <i>Taxus media</i> (upright), 3-yr. T. 12 to 15 ins.	.30	.25
1000 <i>Picea glauca albertiana</i> , 3-yr. S. 6 to 8 ins.	.07	.06	650 <i>Taxus media</i> (upright), TT. 12 to 15 ins.	.45	...
2000 <i>Picea pungens</i> , 3-yr. S.	.07	.06	2000 <i>Taxus media Halliana Strain</i> (new), 1-yr. T. 4 to 6 ins.	.18	.17 1/2
1000 <i>Pieris japonica</i> , 1-yr. T.	.15	.14	3000 2-yr. T. 6 to 8 ins.	.30	.25
1000 <i>Pieris japonica</i> , 2-yr. T.	.25	.22 1/2	2500 3-yr. T. 9 to 12 ins.	.35	.30
3000 <i>Pieris japonica</i> , 3-yr. TT.	.35	.30	1000 4-yr. TT. 9 to 12 ins.	.60	.50
2000 <i>Pinus banksiana</i> , 2-yr. S.	.03	.02 1/2	2000 <i>Taxus media hicksl.</i> , 2-yr. T. 8 to 12 ins.	.30	.25
2500 <i>Pinus densiflora</i> , 3-yr. S.	.05	.04	2000 <i>Taxus media hicksl.</i> , 3-yr. T. 10 to 15 ins.	.35	.30
2500 <i>Pinus densiflora</i> , 3-yr. T.	.10	.09	1000 <i>Taxus media hicksl.</i> , 6-yr. TT. 12 to 15 ins.	.60	.50
1000 <i>Pinus montana mughus</i> , 1-yr. S.	.03	.02 1/2	300 <i>Taxus media hicksl.</i> , 6-yr. TT. 15 to 18 ins.	.85	.75
3000 <i>Pinus montana mughus</i> , 2-yr. S.	.05	.04	2000 <i>Taxus media hicksl.</i> , 1-yr. T.	.15	.14
9000 <i>Pinus montana mughus</i> , 3-yr. S.	.08	.07	6000 <i>Taxus media hicksl.</i> , 2-yr. T. 8 to 12 ins.	.25	.20
8000 <i>Pinus montana mughus</i> , 3-yr. T.	.10	.09	2000 <i>Taxus media hicksl.</i> , 3-yr. T. 12 to 15 ins.	.30	.25
2000 <i>Pinus nigra austriaca</i> , 1-yr. S.	.04	.03 1/2	1000 <i>Taxus media hicksl.</i> , 4-yr. TT. 10 to 12 ins.	.40	.35
2000 <i>Pinus nigra austriaca</i> , 2-yr. S. 4 to 6 ins.	.06	.05	800 <i>Taxus media hicksl.</i> , 6-yr. TT. 12 to 15 ins.	.60	.50
5000 <i>Pinus riccia</i> , 2-yr. S.	.03	.02	300 <i>Taxus media hicksl.</i> , 6-yr. TT. 15 to 18 ins.	.85	.75
5000 <i>Pinus strobus</i> , 3-yr. T.	.08	.07	2000 <i>Taxus media hicksl.</i> , 1-yr. T.	.15	.14
6000 <i>Pinus sylvestris</i> , 2-yr. S.	.05	.04	6000 <i>Taxus media hicksl.</i> , 2-yr. T. 8 to 12 ins.	.25	.20
3000 <i>Pinus sylvestris</i> , 3-yr. T.	.09	.07	2000 <i>Taxus media hicksl.</i> , 3-yr. T. 12 to 15 ins.	.30	.25
2000 <i>Pinus sylvestris</i> , 4-yr. T.	.12	.10	1000 <i>Taxus media hicksl.</i> , 4-yr. TT. 10 to 12 ins.	.40	.35
1000 <i>Pinus thunbergi</i> , 1-yr. S.	.03	.02 1/2	800 <i>Taxus media hicksl.</i> , 6-yr. TT. 12 to 15 ins.	.60	.50
4000 <i>Pinus thunbergi</i> , 3-yr. T.	.12	.10	300 <i>Taxus media hicksl.</i> , 6-yr. TT. 15 to 18 ins.	.85	.75
1000 <i>Pseudotsuga douglasii</i> , 2-yr. S.	.06	.05	2000 <i>Taxus media hicksl.</i> , 1-yr. T.	.15	.14
1000 <i>Pseudotsuga douglasii</i> , 3-yr. S. 4 to 6 ins.	.07	.06	6000 <i>Taxus media hicksl.</i> , 2-yr. T. 8 to 12 ins.	.25	.20
2000 <i>Pseudotsuga douglasii</i> , 3-yr. T.	.10	.09	2000 <i>Taxus media hicksl.</i> , 3-yr. T. 12 to 15 ins.	.30	.25
4000 <i>Pseudotsuga douglasii caesia</i> , 2-yr. S.	.07	.06	1000 <i>Taxus media hicksl.</i> , 4-yr. TT. 10 to 12 ins.	.40	.35
1000 <i>Pseudotsuga douglasii caesia</i> , 4-yr. T.	.12	.10	800 <i>Taxus media hicksl.</i> , 6-yr. TT. 12 to 15 ins.	.60	.50
2000 <i>Pseudotsuga douglasii glauca</i> , 2-yr. S.	.07	.06	300 <i>Taxus media hicksl.</i> , 6-yr. TT. 15 to 18 ins.	.85	.75
200 <i>Pyraeantha coccinea halandi</i> , 2 1/4-in. pot, 6 to 8 ins.	.20	...	2000 <i>Taxus media hicksl.</i> , 1-yr. T.	.15	.14
1000 <i>Rhododendrons</i> , Named Hybrids, 50 per cent red, pot grafts.	.75	...	6000 <i>Taxus media hicksl.</i> , 2-yr. T. 8 to 12 ins.	.25	.20
1000 <i>Rhododendrons</i> , Named Hybrids, all red, pot grafts.	.90	...	2000 <i>Taxus media hicksl.</i> , 3-yr. T. 12 to 15 ins.	.30	.25
500 <i>Taxus baccata repandens</i> , 2-yr. T. 6 to 8 ins.	.35	...	1000 <i>Taxus media hicksl.</i> , 4-yr. TT. 10 to 12 ins.	.40	.35
700 <i>Taxus baccata fastigiata</i> , 3-yr. T.	.30	.25	650 <i>Taxus media hicksl.</i> , TT. 12 to 15 ins.	.60	.50
200 <i>Taxus baccata fastigiata</i> , TT. 9 to 12 ins.	.40	...	400 <i>Taxus media hicksl.</i> , TT. 15 to 18 ins.	.80	.75
200 <i>Taxus baccata fastigiata</i> , TT. 12 to 15 ins.	.50	...	1000 <i>Taxus media Moon's Columnaris</i> , 2-yr. T. 8 to 10 ins.	.30	.25
200 <i>Taxus baccata fastigiata</i> , TT. 15 to 18 ins.	.75	...	1500 3-yr. T. 9 to 12 ins.	.35	.30
500 <i>Taxus baccata repandens</i> , 3-yr. T. 8 to 12 ins.	.60	...	600 4-yr. TT.	.45	.40
			10,000 <i>Thuja occidentalis</i> , 2-yr. S.	.04	.03 1/2
			1000 <i>Thuja occ. boothii</i> , 2-yr. T. 6 to 8 ins.	.30	.25
			1000 <i>Thuja occ. boothii</i> , 3-yr. T.	.35	.30

Please note—All rooted cuttings and pot grafts will be ready for shipment May, 1950, at proper time. These cannot be included in Fall, 1949, shipments.

	100 rate each	1000 rate each		100 rate each	1000 rate each
500 Thuja occ. compacta, 1-yr. T.	\$0.15	\$0.14	5000 Cornus florida (understocks), S. 12 to 18 ins.	\$0.06	\$0.05
1000 Thuja occ. compacta, 3-yr. T. 6 to 8 ins.	.30	.25	2000 Cornus florida rubra, pot grafts.	.40	.37½
300 Thuja occ. compacta, 4-yr. T. 8 to 12 ins.	.35	.30	500 Cornus florida rubra, 1-yr. grafts.	.75	1.00
500 Thuja occ. compacta, TT. 8 to 10 ins.	.35	.30	200 Cornus kousa, 1-yr. S.	.65	.61½
700 Thuja occ. compacta, TT. 10 to 12 ins.	.40	.35	5000 Cornus mascula, 1-yr. S. 2 to 6 ins.	.65	.61
1000 Thuja occ. Columbia, T. 6 to 8 ins.	.20	.18	1000 Cornus sanguinea, 1-yr. S. 2 to 4 ins.	.65	.61½
1000 Thuja occ. Columbia, T. 8 to 10 ins.	.25	.20	1000 Cotoneaster acutifolia, 1-yr. S. 2 to 4 ins.	.08	.06½
800 Thuja occ. Columbia, TT. 8 to 12 ins.	.30	.25	1000 Cotoneaster divaricata, 2-yr. T. 6 to 8 ins.	.12½	.10
1200 Thuja occ. douglasii (spiralis), 2-yr. T. 6 to 8 ins.	.25	.20	1000 Cotoneaster horizontalis, 1-yr. S.	.10	.09
200 Thuja occ. douglasii aurea, TT. 8 to 10 ins.	.35	.30	500 Crataegus cordata, 2-yr. S. 8 to 12 ins.	.15	.10
400 Thuja occ. douglasii aurea, TT. 10 to 12 ins.	.40	.35	5500 Cydonia japonica, 1-yr. S.	.05	.04
600 Thuja occ. elegantissima, TT. 8 to 10 ins.	.45	.40	3500 Cydonia japonica (upright), 1-yr., 4 to 8 ins.	.09	.07½
100 Thuja occ. elegantissima, TT. 12 to 18 ins.	.75	.60	1000 Cydonia japonica, 2-yr. T.	.12	.09½
200 Thuja occ. globosa, 1-yr. T.	.15	.14	5000 Daphne cneorum, rooted cuttings.	.10	.09
500 Thuja occ. globosa, 2-yr. T. 6 to 8 ins.	.20	.18	1000 Deutzia gracilis, rooted cuttings from flats.	.05	.04½
800 Thuja occ. hoveyi, 1-yr. T.	.15	.14	1000 Deutzia gracilis, 2-yr. C. 6 to 8 ins.	.12½	.10
200 Thuja occ. hoveyi, 2-yr. T. 6 to 8 ins.	.20	.18	1500 Elaeagnus angustifolia, 1-yr. S.	.05	.04
100 Thuja occ. hoveyi, TT. 10 to 12 ins.	.40	.35	1000 Elaeagnus argentea, 1-yr. S.	.06	.05
400 Thuja occ. lutea (George Peabody arborescens), T. 6 to 8 ins.	.30	.25	1000 Enkianthus campanulatus, 1-yr. T.	.18	.15
1000 Thuja occ. nana, T. 4 to 6 ins.	.20	.18	2000 Euonymus alatus, 2-yr. C. 4 to 8 ins.	.15	.12½
1000 Thuja occ. nigra (Dark American arborescens), 1-yr. T. 6 to 8 ins.	.15	.14	350 Euonymus europaeus, 1-yr. S. 6 to 8 ins.	.06	.04
1000 Thuja occ. nigra (Dark American arborescens), 2-yr. T. 8 to 10 ins.	.25	.20	2000 Euonymus vegetus, rooted cuttings from flats.	.12	.10
2000 Thuja occ. nigra (Dark American arborescens), 2-yr. T. 10 to 12 ins.	.30	.25	1000 Euonymus vegetus, 2-yr. T. 6 to 10 ins.	.20	.15
1000 Thuja occ. pyramidalis, 1-yr. T. 6 to 8 ins.	.15	.14	2000 Forsythia Spring Glory, 2½-in. pots.	.15	.10
1000 Thuja occ. pyramidalis, 2-yr. T. 10 to 12 ins.	.30	.25	3000 Forsythia spectabilis, 1-yr. C.	.06	.05
1000 Thuja occ. pyramidalis, 3-yr. T. 10 to 12 ins.	.35	.30	3000 Forsythia suspensa fortunei, 1-yr. C.	.06	.05
2500 Thuja occ. pyramidalis, T. 6 to 8 ins.	.25	.20	800 Forsythia primulina, 1-yr. C.	.06	.05
1000 Thuja occ. pyramidalis, transplanted grafts, 15 to 18 ins.	.70	.60	450 Hamamelis virginiana, 1-yr. S.	.05	.04
800 Thuja occ. umbrellifera, 2-yr. T. 6 to 8 ins.	.20	.18	2000 Hydrangea, Hills of Snow, 1-yr. T. 12 to 18 ins.	.15	.12½
600 Thuja occ. umbrellifera, TT. 8 to 10 ins.	.30	.25	1000 Hydrangea P. G., 1-yr. T. 3 to 6 ins.	.15	.12½
2000 Thuja occ. wareana, 2-yr. T. 6 to 8 ins.	.25	.20	1000 Kolkwitzia amabilis, 1-yr. T.	.12	.10
1000 Thuja occ. wareana, TT. 8 to 12 ins.	.35	.30	1000 Kolkwitzia amabilis, 2-yr. T. 12 ins. up.	.25	.20
300 Thuja occ. wareana, 2-yr. transplanted grafts.	.60	.50	1000 Laburnum vulgare, 1-yr. S.	.08	.07½
2000 Thuja occ. woodwardii, 2-yr. T. 8 to 10 ins.	.25	.22	1000 Laburnum vulgare, 2-yr. T.	.10	.09
5000 Thuja orientalis, 1-yr. S.	.03	.02½	5000 Larix decidua (europaea), 3-yr. S.	.12	.09
1500 Thuja orientalis, 2-yr. S.	.04	.03½	5000 Ligustrum ibota, 2-yr. S. 6 to 12 ins.	.08	.07½
2000 Thuja orientalis, 3-yr. S.	.06	.05	5000 Ligustrum amurense, 1-yr. T. 12 to 18 ins.	.05	.04½
600 Thuja orientalis, 4-yr. T.	.08	.07	2000 Ligustrum ibolium, 1-yr. T. 12 to 18 ins.	.05	.04½
3000 Thuja orientalis (grafting size), 2-yr. T.	.05	.04½	2000 Ligustrum ovalifolium, 1-yr. T. 12 to 24 ins.	.05	.04½
2000 Thuja orientalis aurea nana, pot-grafts	.35	.30	500 Liriodendron tulipifera, whips, 5 to 6 ft.	.50	.40
1000 Thuja orientalis aurea nana, 2-yr. transplanted grafts.	.60	.50	1200 Lonicera tart. rosea, 1-yr. C.	.06	.05
1000 Thuja orientalis compacta, 2-yr. S.	.06	.05	2000 Magnolia soulangeana, pot grafts.	.60	.50
2000 Thuja plicata, 2-yr. S. 6 to 8 ins.	.05	.04	500 Magnolia soulangeana, 1-yr. T.	1.00	.80
Tsuga canadensis (collected seedlings), 6 to 12 ins.	.10	.05	500 Magnolia stellata, pot grafts.	.60	.50
2000 Tsuga canadensis, 3-yr. T. 6 to 10 ins.	.30	.25	1000 Malus, Flowering Crab, ass't varieties, 1-yr. T.	.30	.25
2000 Tsuga canadensis, 3-yr. T. 12 to 18 ins.	.45	.40	500 Malus, 2-yr. T.	.35	.30
1000 Tsuga canadensis, TT. 12 to 18 ins.	.60	.50	Philadelphus, Albare, 1-yr. C.	.05	.04
300 Tsuga canadensis sargentii, 1-yr. S.	.75	.60	700 Philadelphus, Bouquet Blanc, 1-yr. C.	.05	.04
DECIDUOUS LINING-OUT STOCK			1000 Philadelphus coronarius, 1-yr. C.	.05	.04
2000 Acer dasycarpum, 1-yr. S. 8 to 12 ins.	.08	.06	3000 Philadelphus coronarius aureus, 2½-in. pots.	.15	.12½
1500 Acer ginnala, 2-yr. S. 8 to 12 ins.	.08	.06½	500 Philadelphus virginialis, 1-yr. C.	.10	.08
2000 Acer palmatum, transplanted understocks.	.15	.14	1000 Photinia villosa, 1-yr. S.	.03	.02½
2000 Acer palmatum atropurpureum, pot grafts.	.75	.60	500 Populus nigra italica, 1-yr. T. 4 to 6 ft.	.15	.10
500 Acer palmatum atropurpureum, seed-grown transplants, 9 to 12 ins.	.50	.40	1000 Prunus americana, 1-yr. S. 12 to 18 ins.	.05	.04
500 Acer palmatum atropurpureum, seed-grown transplants, 15 to 18 ins.	.75	.60	500 Prunus serrulata Amanokawa, 1-yr. grafts, 12 to 18 ins.	.30	.25
650 Acer rubrum, 3-yr. T. 3 to 4 ft.	.20	.17½	500 Prunus serrulata Kwanan, 1-yr. grafts, 12 to 18 ins.	.35	.30
1000 Acer saccharum, 3-yr. T. 3 to 4 ft.	.40	.35	500 Prunus subhirtella pendula, 1-yr. low grafts, 12 to 18 ins.	.35	.30
5000 Althea, 1-yr. S.	.04	.03	2500 Prunus tomentosa, 1-yr. S. 4 to 6 ins.	.06	.05
5000 Ampelopsis vitifolia, 1-yr. S. No. 1.	.04	.03½	4000 Rhamnus cathartica, 1-yr. S. 6 to 8 ins.	.05	.04
5000 Ampelopsis vitifolia, 1-yr. S. No. 2.	.03	.02	1100 Rhodotypos kerrioides, 1-yr. S. 6 to 10 ins.	.09	.08
700 Ampelopsis heterophylla, 1-yr. S. No. 3.	.04	.03	1500 Rhus aromatica, 1-yr. S. 6 to 8 ins.	.06	.05
1000 Azalea amoena, 1-yr. T.	.18	.15	2000 Rosa rubrifolia, 2-yr. T. 6 to 10 ins.	.08½	.07½
1000 Azalea amoena, 2-yr. T.	.25	.20	1000 Rosa rugosa, 1-yr. S.	.05	.04½
1000 Azalea arnoldiana, 1-yr. T.	.18	.15	1000 Rosa rugosa alba, 1-yr. S.	.10	.09
2000 Azalea hindidigri, 1-yr. T.	.18	.15	5000 Rosa rugosa, 2-yr. T.	.12	.09½
1000 Azalea hindidigri, 2-yr. T.	.35	.30	5000 Rosa setigera, 1-yr. S. 6 to 10 ins.	.06	.05
1000 Azalea knemferi, 1-yr. T.	.18	.15	1000 Salix blanda, 1-yr. C. 2 to 4 ft.	.10	.08½
1500 Azalea knemferi, 2-yr. T.	.25	.20	500 Sophora japonica, 1-yr. S.	.10	.09
1000 Azalea poukhanensis, 1-yr. T.	.18	.15	1000 Sorbus aucuparia, 1-yr. S.	.06	.05
2500 Azalea poukhanensis, 2-yr. T.	.25	.20	500 Sorbus aucuparia, 2-yr. T. 2 to 4 ft.	.35	.30
600 Berberis koraeana, 1-yr. S.	.03	.02½	500 Sorbus aucuparia, 3-yr. T. 2 to 4 ft.	.50	.40
5000 Berberis thunbergi, 1-yr. S.	.01½	.01¼	2000 Syringa pekinensis, 1-yr. C. 1 to 4 ins.	.06	.05
8000 Berberis thunbergi, 2-yr. S.	.06	.05	500 Syringa villosa, 1-yr. S.	.03	.02
5000 Berberis thunbergi, 2-yr. T. 9 to 12 ins.	.07½	.06	500 Syringa vulgaris, Hybrids, ass't 1-yr. grafts, 12 to 18 ins.	.25	.20
3000 Berberis thunbergi, 2-yr. T. 12 to 18 ins.	.15	.12½	200 Syringa vulgaris, Hybrids, ass't 2-yr. grafts.	.35	.30
6000 Berberis thunbergi atropurpurea, 1-yr. S.	.06	.05	5000 Vaccinium, Hybrid Blueberries, rooted cuttings.	.15	.10
2500 Berberis thun. atropurpurea, 2-yr. T. 6 to 8 ins.	.04	.02½	Varieties: Concord, Rubel, Pioneer, Ranocens, Jersey, Stanley, at above prices. These varieties 10c each higher: Weymouth, Atlantic, Pemberton, Dixie.		
2000 Berberis thun. atropurpurea, 2-yr. T. 9 to 12 ins.	.10	.09	1000 Viburnum burkwoodi, pot grafts.	.40	.35
2800 Berberis thun. atropurpurea, 2-yr. T. 12 to 18 ins.	.15	.12½	1500 Viburnum carlesii, pot grafts.	.40	.35
1300 Celastrus orbiculatus, 1-yr. S.	.05	.04½	500 Viburnum dentatum, 2-yr. S. 8 to 12 ins.	.12	.10
1000 Celastrus scandens, 1-yr. S.	.05	.04½	500 Viburnum dilatatum, 2-yr. T.	.12	.09½
200 Chionanthus virginiana, 1-yr. S.	.05	.04	400 Viburnum lentago, 1-yr. S.	.05	.04½
900 Cornus alba sibirica, 2-yr. T.	.07	.06	1500 Viburnum pubescens, 2-yr. S. 6 to 10 ins.	.12	.10
1000 Cornus elegantissima, 2-yr. T. 6 to 10 ins.	.15	.12½	1000 Viburnum sieboldii, 1-yr. S. 4 to 6 ins.	.06	.05
1200 Cornus stolonifera, 2-yr. T. 6 to 10 ins.	.07½	.07	3000 Weigela, Bristol Ruby (patented), R.C. or 2½-in. pots.	.25	.22½
2000 Cornus stolonifera lutea, 2-yr. T. 6 to 10 ins.	.07½	.07	(Price of Bristol Ruby includes royalty.)		
			1000 Weigela, Eva Rathke, 1-yr. C.	.15	.10
			2000 Weigela rosea, 1-yr. C.	.06	.05
			1000 Wistaria sinensis, purple, 1-yr. grafts.	.20	.15

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

E. D. ROBINSON SALES AGENCY

38 South Elm St.

Wallingford, Conn.

"A friendly, efficient service"

mans, who is a native Hollander with a fine knowledge of horticulture. He is assisted by his son, Winslow C. Grullemans. Wayside is known for having the latest introductions in shrubs, roses, perennials, bulbs, seeds and sundries. The company has a bulb warehouse and beautiful office at its eastern branch at Glen Head, L. I., N. Y.

Kallay Bros. Nursery, on Madison avenue, Painesville, has a large acreage and grows a full line of deciduous material, evergreens, fruit trees and roses. This is one of the oldest nurseries in the county.

The Champion Nurseries, Perry, are one of the larger nurseries, specializing in evergreens, trees, shrubs, roses and fruit trees. They are owned and operated by Arthur Champion and his sons.

The Cole Nursery Co. is owned and operated by D. Barrett Cole and his two sons. They have a large acreage and carry a full line of evergreens, trees, shrubs, roses, fruit and perennials.

Donewell Nurseries, which are a beauty spot on Route 20, Painesville, display attractive settings of evergreens, in which they specialize. They also grow shrubs, trees and roses. They are owned and operated by Joseph Kallay and his two sons, Watson and Robert Kallay, the latter one being president of the Lake County Nurserymen's Association.

Paul Schumaker is owner of Call's Nurseries, Perry, producing evergreens, trees, shrubs, roses and fruit trees. He is now being assisted in the business by his son, Don Schumaker.

Three of the preeminent rose specialists are Gerard K. Klyn, Inc., Bosley Nursery and Melvin E. Wyant, all of Mentor. Klyn's also grows deciduous and evergreen material, while Bosley specializes in rhododendrons and azaleas in addition to his roses. Other growers in the county who specialize in roses are Lester Square Nursery, Painesville; Charles March, Painesville, and Joseph Kern, Mentor.

Specializing in perennials are the Joseph F. Martin Co., Painesville; Mentor Avenue Gardens, Painesville, owned and operated by William Youmans; Perennial Nurseries, Park road, Painesville, owned and operated by Alva Smith and his son; Springbrook Gardens, Mentor, owned and operated by Elmer Schultz and his son Jack; Oz Bros., Madison; Lohrey Floral Gardens, Mentor; Charles Beardslee, and Arthur Nichols, Painesville.

Michael P. Sebian, Painesville, is known as the taxus specialist, having an extensive planting of yews.

Growers at Painesville specializ-

ing in evergreens, trees and shrubs are L. P. Brick, Madison avenue; Wayne Horton, Johnnycake Ridge; John Molnar, Bowhall road; Joe Sabo & Son, Bowhall road, and Youdath Nurseries, Mentor avenue, also handling perennials. John Square & Son, Fairport Nursery road, also grows roses and fruits in addition to evergreens. C. T. Waldorf, owner of the Elmdorf Nurseries, West Jackson street, has an extensive planting of roses along with some evergreens and this year has been specializing in blueberries. Joseph Romano, Sanford street, specializes in rhododendrons. Walton Nurseries, Newell street, are growing azaleas and taxus.

Charles Kohankie, noted landscape gardener, Painesville, also operates the nursery of Julius Kohankie & Sons and is growing a fine stock of evergreens, shrubs and trees for the wholesale trade.

C. W. Harris, of Harris Nursery Sales, Painesville, is one of the association's newest members and is working up a retail business in perennials,

shrubs, evergreens and bulbs in addition to his florists' and gift shop business.

Stevenson & Cox, of Middle Ridge, Perry, specialize in strawberries and are one of the large growers of this item in the country.

Other members of the association at Perry are Coppock's Nursery, Dugan's Nursery, Fankhauser & Co., A. Horvath Nursery, Rest Haven Nurseries, Secor's, T. B. West & Son, Frank Brown and Sunnyview Nurseries. Most of these grow evergreens, trees and shrubs, and some have fruit and roses. Willowbend Nursery, on Davis road, Perry, is owned and operated by Thorne Brewster and has rather an extensive planting of trees, shrubs and fruit.

Warner Nursery, River road, Willoughby, and Carosello's Nursery, Vine street, Willoughby, specialize in conifers and broad-leaved evergreens.

Nurserymen at Geneva, which is just outside Lake county, who are

[Concluded on page 53.]

SUGAR MAPLE LINERS (Acer Saccharum)

With deciduous trees in good demand, these maple liners will rapidly grow into money.

	Per 100	Per 1000
2 to 3 ft.....	\$16.00	\$150.00
3 to 4 ft.....	20.00	190.00
4 to 5 ft.....	25.00	235.00
5 to 6 ft.....	35.00	330.00
6 to 8 ft.....	45.00	425.00
8 to 10 ft.....	60.00	575.00

Plant this fall and have the job out of the way.

EVERGREEN NURSERY CO.

Established 1864

Sturgeon Bay, Wis.

BALLED and BURLAPPED EVERGREENS

Our sources of B&B Evergreens are among the best. Let us quote your requirements for Fall 1949—Spring 1950 Season.

Over 20 years of service to the Wholesale Nursery Trade.

See our new 2-page lining-out ad in this issue.

E. D. Robinson Sales Agency

Wallingford, Connecticut

"A friendly, efficient service."

SLATTON NURSERY CO., McMinnville, TENN.

WHOLESALE PRICE LIST

	Per 100	Per 1000
ONE-YEAR CHERRY (Sour)		
1 1/16 to 1-in., well br.	\$50.00	\$450.00
9/16 to 1 1/16-in., well br.	45.00	400.00
7/16 to 9/16-in., well br.	40.00	350.00
5/16 to 7/16-in., well br.	30.00	250.00

Varieties: Montmorency, Early Richmond.

	Per 100	Per 1000
ONE-YEAR CHERRY (Sweet)		
1 1/16 to 1-in., partly br.	50.00	450.00
9/16 to 1 1/16-in., partly br.	45.00	400.00
7/16 to 9/16-in.	40.00	350.00
5/16 to 7/16-in.	30.00	250.00

Varieties: Black Tartarian.

	Per 100
PLUM	
7/16 to 9/16-in.	40.00
5/16 to 7/16-in.	35.00
18 to 24 ins.	20.00

Varieties: Abundance, Burbank.

	Per 100
ONE-YEAR PEACH	
1 1/16-in. and up	30.00
9/16 to 1 1/16-in.	25.00
7/16 to 9/16-in.	20.00
5/16 to 7/16-in.	15.00
2 to 3 ft., under 5/16-in.	10.00

	Per 100
JUNE BUD PEACH	
7/16 to 9/16-in.	20.00
2 to 3 ft.	15.00
18 to 24 ins.	10.00

Varieties: Elberta, J. H. Hale, Golden Jubilee, Red Bird, Halehaven, Rochester, Belle of Georgia.

	Per 100
PEAR	
4 to 5 ft.	40.00
3 to 4 ft.	35.00
2 to 3 ft.	30.00
18 to 24 ins.	20.00

Varieties: Kieffer, Garber

	Per 100
ONE-YEAR APPLE	
3 to 4 ft.	30.00
2 to 3 ft.	25.00

Varieties: Double Red Delicious, Yellow Delicious, Stayman Winesap, Rome Beauty, Yellow T. P., Jonathan Red.

	Per 100	Per 1000
FIGS		
3 to 4 ft.	\$3.50	\$30.00
2 to 3 ft.	3.00	25.00

Variety: Brown Turkey.

	Per 100	Per 1000
WALNUTS, Juglans Nigra (Black Walnuts)		
3 to 4 ft.	1.00	9.00
2 to 3 ft.	.80	7.00
18 to 24 ins.	.60	5.00

	Per 100	Per 1000
PLUM, NEWPORT, Purpleleaf.		
2 to 3 ft.	3.00	25.00
18 to 24 ins.	2.50	20.00

	Per 100	Per 1000
PRUNUS AMYGDALUS		
Red-flowering Peach.		
3 to 4 ft.	4.00	35.00
2 to 3 ft.	3.50	30.00

	Per 100	Per 1000
CORNUS FLORIDA		
White-flowering Dogwood.		
5 to 6 ft., well br.	5.00	45.00
4 to 5 ft., well br.	4.50	40.00
3 to 4 ft., well br.	4.00	35.00
2 to 3 ft., well br.	3.50	30.00

	Per 100	Per 1000
Seedlings.		
6 to 12 ins., liners.	2.50	\$20.00
12 to 15 ins., grafting size	3.50	30.00

	Per 100	Per 1000
CORNUS FLORIDA RUBRA		
Red-flowering Dogwood.		
3 to 4 ft., well br.	\$20.00	\$175.00
2 to 3 ft., well br.	17.50	150.00

	Per 100	Per 1000
CERCIS CANADENSIS		
American Redbud.		
4 to 5 ft., tr.	4.50	40.00
3 to 4 ft., tr.	4.00	35.00
2 to 3 ft., tr.	3.00	25.00

	Per 100	Per 1000
CHINESE ELM		
4 to 5 ft., tr.	3.00	25.00
3 to 4 ft., tr.	2.50	20.00
12 to 18 ins., s.		1.50 \$12.50
18 to 24 ins., s.		2.00 18.00
2 to 3 ft., s.		3.50 30.00

	Per 100	Per 1000
LIRIODENDRON TULIPIFERA		
Tulip Tree.		
5 to 6 ft.	6.00	55.00
4 to 5 ft.	5.50	50.00

	Per 100	Per 1000
HYDRANGEA PEEGEE		
2 to 3 ft., tr.	4.00	35.00
18 to 24 ins., tr.	3.50	30.00
12 to 18 ins., tr.	3.00	25.00

	Per 100	Per 1000
OAKLEAF HYDRANGEA		
2 to 3 ft., tr.	4.00	35.00
18 to 24 ins., tr.	3.50	30.00
12 to 18 ins., tr.	3.00	25.00

	Per 100	Per 1000
ABELIA GRANDIFLORA		
2 to 3 ft., bare root	5.00	45.00
2 to 3 ft., B&B	7.50	70.00
3 to 4 ft., bare root	7.00	65.00
3 to 4 ft., B&B	11.00	100.00
6 to 8 ins., liners		7.00 60.00
8 to 12 ins., liners		8.00 70.00

	Per 100	Per 1000
LAGERSTROEMIA INDICA		
Crape Myrtle, pink and red.		
18 to 24 ins., tr.	3.00	25.00
2 to 3 ft., tr.	4.00	30.00

	Per 100	Per 1000
SPIRAEA VANHOUTEI		
2 to 3 ft.		7.50
18 to 24 ins.		6.50
12 to 18 ins. (hedging grade)		5.50

	Per 100	Per 1000
ALTHAEA, bush form, pink and red.		
3 to 4 ft., tr.	2.50	20.00
2 to 3 ft., tr.	2.00	18.00

	Per 100	Per 1000
PRIVET, Ligustrum Amurense		
(Amur River North).		
18 to 24 ins., 2 br.		40.00
18 to 24 ins., 3 br.		50.00
2 to 3 ft., 4 br.		65.00

	Per 100	Per 1000
CHINESE WISTARIA, purple.		
(Grafted from blooming wood)		
One-year.		
No. 1	3.50	
No. 2	2.50	

	Per 100	Per 1000
ALMOND, Prunus Glandulosa		
Double, pink-flowering Almond		
(own root).		
12 to 18 ins., tr., well br.	2.50	20.00
18 to 24 ins., tr., well br.	3.00	25.00
2 to 3 ft., tr., well br.	4.00	35.00

	Per 100	Per 1000
CYDONIA JAPONICA RUBRA		
Japanese Quince, true upright red,		
nonfruiting.		
12 to 18 ins., 2-year, well br.	2.50	20.00
18 to 24 ins., 2-year, well br.	3.00	25.00

	Per 100	Per 1000
LOMBARDY POPLAR		
4 to 5 ft., 2-year, tr.	4.00	30.00

SCOTCH PINE

Fast-growing. Very popular Christmas tree planting stock.

			Per 100	Per 1000
2-yr. Seedlings	(2-0)	2 to 4 ins.	\$ 3.20	\$ 16.00
2-yr. Seedlings	(2-0)	4 to 8 ins.	5.00	25.00
3-yr. Seedlings	(3-0)	8 to 14 ins.	7.00	35.00
3-yr. Transplants	(2-1)	3 to 6 ins.	9.00	45.00

SPECIAL SCOTCH PINE

Grown from Certified Seeds. Special strain. Fine stock, well graded. Seeds obtained from the hardiest, straight-stemmed, good-color trees, from the finest forests in Europe.

2-yr. Seedlings	(2-0)	3 to 6 ins.	7.00	35.00
3-yr. Seedlings	(3-0)	6 to 10 ins.	8.00	40.00
3-yr. Transplants	(2-1)	6 to 10 ins.	12.00	60.00
4-yr. Transplants	(2-2)	5 to 9 ins.	16.00	80.00
Sheared, heavy stems, well branched.				
*6-yr. Twice Trans.		14 to 18 ins.	50.00	
Sheared, bushy.				
Lots of 10 at 100 rate—Shipped express collect.				

AUSTRIAN PINE

Beautiful compact ornamental and Christmas Tree.

2-yr. Seedlings	(2-0)	2 to 4 ins.	3.60	18.00
2-yr. Seedlings	(2-0)	3 to 5 ins.	5.00	25.00
4-yr. Transplants	(3-1)	8 to 10 ins.	25.00	
HEAVY, BUSHY.				
Lots of 10 at 100 rate—Shipped express collect.				

WHITE PINE

One of the best timber species, also Christmas Tree.

2-yr. Seedlings	(2-0)	2 to 4 ins.	5.00	25.00
2-yr. Seedlings	(2-0)	3 to 6 ins.	6.00	30.00
3-yr. Seedlings	(3-0)	5 to 9 ins.	7.00	35.00
3-yr. Transplants	(2-1)	2 to 4 ins.	9.00	45.00
5-yr. Transplants	(3-2)	6 to 10 ins.	12.00	60.00
*5-yr. Transplants	(3-2)	10 to 16 ins.	20.00	
Lots of 10 at 100 rate—Shipped express collect.				
*9-yr. Twice Trans.		12 to 18 ins.	50.00	
Lots of 10 at 100 rate—Shipped express collect.				
*9-yr. Twice Trans.		18 to 24 ins.	75.00	
Lots of 10 at 100 rate—Shipped express collect.				

AMERICAN RED PINE

Excellent timber and Christmas tree. Seeds obtained from finest American virgin forests.

2-yr. Seedlings	(2-0)	2 to 3 ins.	7.00	35.00
2-yr. Seedlings	(2-0)	2 to 4 ins.	8.00	40.00
Select, well graded.				
3-yr. Seedlings	(3-0)	6 to 10 ins.	10.00	50.00
3-yr. Transplants	(2-1)	4 to 7 ins.	13.00	65.00
3-yr. Transplants	(2-1)	5 to 9 ins.	15.00	75.00
Heavy, well graded.				
4-yr. Transplants	(2-2)	8 to 14 ins.	25.00	125.00
Excellent, heavy stock.				
*7-yr. Twice Trans.		14 to 18 ins.	50.00	
Lots of 10 at 100 rate—Shipped express collect.				
*8-yr. Twice Trans.		18 to 24 ins.	75.00	
Lots of 10 at 100 rate—Shipped express collect.				

MUGHO PINE

Dwarf ornamental. Requires sun.

2-yr. Seedlings	(2-0)	1 to 2 ins.	4.00	20.00
True dwarf.				
3-yr. Seedlings	(3-0)	3 to 7 ins.	6.00	30.00
True dwarf.				
4-yr. Seedlings	(4-0)	7 to 14 ins.	7.00	35.00

JAPANESE BLACK PINE (Thunbergi)

Light green needles, 4 1/2 inches long. Hardy, valuable for use in exposed conditions along seashore.

3-yr. Seedlings	(3-0)	6 to 15 ins.	9.00	45.00
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PONDEROSA PINE

Hardy, fast-growing western yellow pine for timber.

2-yr. Seedlings	(2-0)	3 to 5 ins.	6.00	30.00
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DOUGLAS FIR

Rocky Mountain type. Superior ornamental and Christmas tree.

2-yr. Seedlings	(2-0)	2 to 3 ins.	5.00	25.00
2-yr. Seedlings	(2-0)	3 to 6 ins.	7.00	35.00
3-yr. Seedlings	(3-0)	6 to 10 ins.	9.00	45.00
Heavy stem, partly branched.				
3-yr. Transplants	(2-1)	3 to 5 ins.	11.00	55.00
5-yr. Transplants	(3-2)	5 to 8 ins.	13.00	65.00
Thick stems, bushy.				

CHRISTMAS TREES

7000 Acres in Christmas Tree Farms.

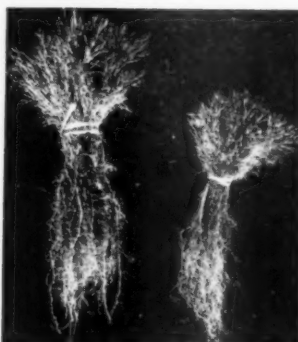
Write for Wholesale Prices and Information.



Musser Forests, Inc.

INDIANA, PENNSYLVANIA

20 MILLION TREES A YEAR

Musser Special
Scotch Pine, 2-yr.Average
2-yr. Scotch
Pine Seedlings**"It Pays to Plant the Best"**Write for complete list
and Christmas Tree
Growers' Guide.NO ORDER CAN
BE ACCEPTED FOR
LESS THAN UNITS
OF FIFTY (50) OF
ONE VARIETY AND
SIZE, EXCEPT ON
ITEMS MARKED
WITH AN ASTER-
ISK (*).**BALSAM FIR**

Per 100 Per 1000

Christmas tree and ornamental. Excellent stock.

2-yr. Seedlings	(2-0)	1 to 2 ins.	\$ 4.00	\$ 20.00
Trans. size.				
2-yr. Seedlings	(2-0)	2 to 3 ins.	6.00	30.00
Trans. size.				
5-yr. Transplants	(3-2)	5 to 10 ins.	15.00	75.00
SELECT, BUSHY, HEAVY STEMS.				

CONCOLOR FIR

Soft short needle, bluish color, very compact, popular ornamental.

2-yr. Seedlings	(2-0)	3 to 6 ins.	10.00	50.00
2-yr. Seedlings	(2-0)	4 to 7 ins.	15.00	75.00

BLACK HILLS SPRUCE

Most compact spruce.

3-yr. Seedlings	(3-0)	2 to 5 ins.	5.00	25.00
4-yr. Transplants	(3-1)	4 to 8 ins.	11.00	55.00
4-yr. Transplants	(3-1)	3 to 6 ins.	13.00	65.00
Very bushy, heavy stems.				

WHITE SPRUCE

Very similar to Norway spruce.

3-yr. Seedlings	(3-0)	3 to 6 ins.	5.00	25.00
4-yr. Transplants	(3-1)	4 to 8 ins.	9.00	45.00
*8-yr. Twice Trans.		18 to 24 ins.	75.00	
Lots of 10 at 100 rate—Shipped express collect.				

NORWAY SPRUCE

Grown from seeds of best fast-growing strains. One of the best for Christmas trees and timber, also can be kept sheared for ornamentals.

2-yr. Seedlings	(2-0)	1 to 3 ins.	4.00	20.00
Trans. size.				
2-yr. Seedlings	(2-0)	4 to 8 ins.	5.00	25.00
2-yr. Seedlings	(2-0)	5 to 10 ins.	6.00	30.00
Fast-growing, excellent stock. (Pictured above.)				
3-yr. Seedlings	(3-0)	2 to 5 ins.	7.00	35.00
Slow-growing, heavy stems, compact.				
3-yr. Seedlings	(3-0)	4 to 10 ins.	12.00	60.00
Fast-growing.				
4-yr. Transplants	(3-1)	7 to 14 ins.	15.00	75.00
*6-yr. Twice Trans.	(2-2-2)	7 to 10 ins.	20.00	100.00
HEAVY.				
*6-yr. Twice Trans.	(2-2-2)	10 to 15 ins.	30.00	150.00
Pencil thickness and better, branched.				
*7-yr. Twice Trans.		12 to 16 ins.	75.00	
Sheared, bushy, well branched.				
Lots of 10 at 100 rate—Shipped express collect.				
*9-yr. Twice Trans.		24 to 32 ins.	125.00	
Lots of 10 at 100 rate—Shipped express collect.				

Musser Forests, Inc.

INDIANA, PENNSYLVANIA

20 MILLION TREES A YEAR

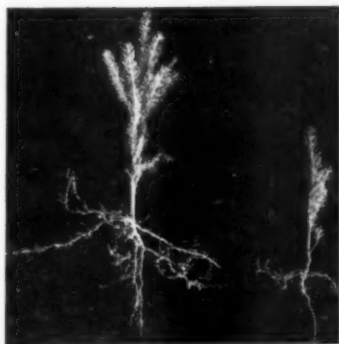


"It Pays to Plant the Best"

Immediate
shipment.
Boxing free.

Orders may be booked
with one-half cash with
order, balance C.O.D.
Fifty of one kind and
and size at the 100 rate,
500 at 1000 rate,
shipped F.O.B.

All prices are NET;
no discounts for cash or
quantity. Prices subject
to change without
notice.



Musser 2-yr. Norway Spruce
3 to 10 in. obtained from selec-
tion of finest strains of seed and
expert propagation.

Average
2-yr. Norway

COLORADO BLUE SPRUCE

Excellent stock—finest in the country; unusually good color.
Seeds hand-picked from Blue trees only.

			Per 100	Per 1000
2-yr. Seedlings	(2-0)	2 to 3 ins.	\$ 3.20	\$16.00
2-yr. Seedlings	(2-0)	2 to 4 ins.	4.00	20.00
2-yr. Seedlings	(2-0)	2 to 5 ins.	5.00	25.00
3-yr. Seedlings	(3-0)	3 to 6 ins.	6.00	30.00
4-yr. Transplants	(3-1)	2 to 6 ins.	10.00	50.00
4-yr. Transplants	(3-1)	5 to 9 ins.	15.00	75.00
Select				

CANADIAN HEMLOCK

Hedges, specimen ornamentals, full shade or full sunlight.

2-yr. Seedlings	(2-0)	2 to 4 ins.	6.00	30.00
2-yr. Seedlings	(2-0)	4 to 8 ins.	9.00	45.00
Excellent stock; size and grade equal to 3-yr. stock. Partly branched.				
4-yr. Transplants	(3-1)	3 to 6 ins.	12.00	60.00
4-yr. Transplants	(3-1)	3 to 6 ins.	15.00	75.00
Select stock				
*5-yr. Transplants	(3-2)	6 to 12 ins.	25.00	
Lots of 10 at 100 rate—Shipped express collect.				
*7-yr. Transplants	(3-4)	10 to 16 ins.	40.00	

LARCH, JAPANESE

Very fast-growing timber tree.

2-yr. Seedlings	(2-0)	4 to 12 ins.	5.00	25.00
2-yr. Seedlings	(2-0)	6 to 12 ins.	6.00	30.00
3-yr. Seedlings	(3-0)	12 to 24 ins.	7.00	35.00

GREEN BARBERRY

Very hardy hedge material.

3-yr. Seedlings	(3-0)	4 to 8 ins.	5.00	25.00
3-yr. Seedlings	(3-0)	8 to 16 ins.	7.00	35.00
Heavy, select				
4-yr. Seedlings	(4-0)	6 to 12 ins.	8.00	40.00
Select, heavy, well graded.				
4-yr. Seedlings	(4-0)	12 to 18 ins.	10.00	50.00
Select, heavy, well graded.				

RED BARBERRY

Red leaves all summer, berries in the fall.

2-yr. Seedlings	(2-0)	4 to 8 ins.	8.00	40.00
Heavy, well graded.				
2-yr. Seedlings	(2-0)	8 to 16 ins.	12.00	60.00
Heavy, well graded.				
3-yr. Seedlings	(3-0)	8 to 16 ins.	15.00	75.00
Heavy, well graded.				

WHITE BIRCH

Betula Papyrifera	16 to 24 ins.	8.00	40.00
Hardy all climates and conditions. Bark turns creamy-white at about 5 ft. (3 to 4 years). To get graceful clump effect, plant several seedlings together.			

AMERICAN ARBORVITAE

Hedges and ornamentals.

			Per 100	Per 1000
4-yr. Seedlings	(4-0)	9 to 12 ins.	\$ 9.00	\$ 45.00
Select grade; heavy, straight stems.				
4-yr. Transplants	(3-1)	5 to 10 ins.	12.00	60.00
*5-yr. Transplants	(3-2)	8 to 12 ins.	20.00	
Lots of 10 at 100 rate—Shipped express collect.				
*6-yr. Transplants	(4-2)	10 to 14 ins.	30.00	
Lots of 10 at 100 rate—Shipped express collect.				

PYRAMIDAL ARBORVITAE

Grows in pyramidal shape for ornamental; requires sun.

*6-yr. Twice Trans.	(2-2-2)	6 to 10 ins.	40.00	
Lots of 10 at 100 rate—Shipped express collect.				
*7-yr. Twice Trans.	(2-2-3)	12 to 18 ins.	50.00	
Lots of 10 at 100 rate—Shipped express collect.				

JUNIPER VIRGINIANA

2-yr. Seedlings	(2-0)	3 to 7 ins.	8.00	40.00
2-yr. Seedlings	(2-0)	5 to 9 ins.	10.00	50.00
3-yr. Seedlings	(3-0)	10 to 20 ins.	15.00	75.00
Caliper 1/8 to 1/4 in., mostly pencil thickness.				

PFITZER JUNIPER (Twice Transplants)

Dwarf spreading ornamental, requires sun.

*Twice Transplanted		6 to 10 ins.	50.00	
Lots of 10 at 100 rate—Shipped express collect.				
*Twice Transplanted		10 to 12 ins.	65.00	
Thick stems; bushy, well branched.				
Lots of 10 at 100 rate—Shipped express collect.				
*Hetzi Glauca		8 to 10 ins.	75.00	
Blue, fast-growing. Sheared, very heavy stems, branched.				
Lots of 10 at 100 rate—Shipped express collect.				
*Hetzi Glauca		10 to 15 ins.	90.00	
Blue, fast-growing. Sheared, very heavy stems, branched.				
Lots of 10 at 100 rate—Shipped express collect.				

JAPANESE YEW, Seedlings (Upright)

4-yr. Seedlings	(4-0)	4 to 10 ins.	30.00	250.00
Capitata, grown from seeds.				

JAPANESE YEW, Transplants

2-yr. bedded transplants, excellent stock, well rooted.

Lots of 10 at 100 rate—Shipped express collect.				
*Taxus Cuspidata, low flat.		6 to 8 ins.	25.00	225.00
*Taxus Hicksi, columnar.		7 to 10 ins.	25.00	225.00
*Taxus Hatfieldi, upright,				
conical		4 to 7 ins.	25.00	225.00

JAPANESE YEW (2 and 3 Times Transplanted)

Lots of 10 at 100 rate—Shipped express collect.

*Taxus Hatfieldi, upright, conical.		6 to 9 ins.	50.00	
*Taxus Hatfieldi, upright, conical.		6 to 12 ins.	75.00	
Thick stems, well branched.				
*Taxus Cuspidata, low, flat.		6 to 9 ins.	50.00	
*Taxus Cuspidata, low, flat.		10 to 14 ins.	75.00	
Thick stems, well branched.				
*Taxus Cuspidata, low, flat.		9 to 12 ins.	90.00	
Branched.				
*Taxus Hicksi, columnar.		6 to 12 ins.	50.00	
*Taxus Hicksi, columnar.		8 to 14 ins.	75.00	
Thick stems, well branched.				
*Taxus Hicksi, columnar.		10 to 12 ins.	90.00	
Branched.				

PACHYSANDRA (Ground Cover)

1-yr. Plants		2 to 4 ins.	8.00	70.00
3-yr. Clumps		4 to 8 ins.	35.00	
(Clumps 10 to 20 shoots to each plant)				
Extra-heavy.				

BOSTON IVY

Hardy, fast-growing vine cover for walls and terraces.

Individual Vines, hardy.		12 to 16 ins.	10.00	50.00
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ROSA MULTIFLORA

Living fence. Thorny type.

Write for quantity prices.

8 to 16 ins.		5.60	28.00
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Write for Quantity Prices on
Shade and Hardwood Seedlings, Rhododendron

Meet at Nurseries

KANSAS SUMMER MEETING.

The summer convention of the Kansas Association of Nurserymen was held at the Hotel Jayhawk, Topeka, September 8 and 9. About seventy-five registered the first day. Fifty new members were added.

President Harold S. Crawford, Willis Nursery Co., Ottawa, conducted the business session, which was held on the first afternoon. At this meeting J. C. Banta, L. R. Taylor & Son, Topeka, was elected president for the following year. Eugene Wilson, Holsinger Nursery, Kansas City, was chosen vice-president, and Ralph Skinner, J. H. Skinner & Co., Topeka, was reelected secretary-treasurer.

Among the matters discussed at the business session was the advisability of revising the existing nursery inspection laws. It was suggested that the inspection service might be made more efficient if it were under the jurisdiction of one entomologist instead of two as at present.

The Blue Star Highway program was explained to the membership, which voted to cooperate with the A. A. N. in promoting this work. George Fisher, Kansas Landscape & Nursery Co., Salina, was made chairman of a committee to accomplish this.

Following the business session there was a meeting of the Kansas chapter of the A. A. N. The same officers were chosen for the chapter as were elected by the Kansas association. J. C. Banta was selected as delegate to the national convention, with Ralph Skinner as alternate.

A highlight of the convention was the banquet held on the evening of the first day in the roof garden of the Hotel Jayhawk. Time-lapse motion pictures of the growth and development of plants held the nurserymen spellbound. Additional amusement was provided by a magician and the WIBW radio entertainers.

At 9 o'clock on the morning of the second day, the nurserymen met at the Sarber Nurseries for a tour of their grounds. Other nurseries visited during the morning were those of J. H. Skinner & Co. and L. R. Taylor & Son.

While the nurserymen were inspecting the products of the nursery industries at Topeka, the women and children were taking in the sights of the capital city on a chartered bus provided by L. R. Taylor & Son. At

noon all assembled at the Ranch House restaurant for lunch as guests of J. H. Skinner & Co.

In 1950 the summer meeting of the Kansas association will be held at Manhattan. The date will be determined by the nurserymen of that city. P.

KANSAS CITY GROUP MEETS.

The Kansas City Nurserymen's Association met September 1, at Ottawa, as guests of the Willis Nursery Co. Thirty-eight members and associates of the group were present for the field trips and evening entertainment. Conducted tours of the fields of growing stock were made throughout the afternoon, with refreshments of soft drinks and watermelons waiting at the main storage house of the nursery.

The entire group, augmented by several representatives of the Willis Nursery Co., was entertained at a steak dinner at the North American hotel that evening. Kenneth Haysler, Cloverset Flower Farms, Kansas City, showed an entertaining color film taken on his trip to the A. A. N.

convention at San Francisco. The gathering was further entertained with several fine vocal numbers by a trio consisting of the Misses Joan Henning, Jo Sue Edge and Marjorie Dick, accompanied on the piano by Mrs. Joe Henning, all of Ottawa.

NORTH JERSEY MEETING.

For their regular September meeting, members of the North Jersey Metropolitan Nurserymen's Association, thirty strong, traveled by bus to the nursery of Kurt Meyer and Eric Johnson, Hackettstown, N. J., where they were entertained by a tour of the nursery and an outdoor luncheon.

Of outstanding interest was the 6-room, 1½-story, rambling stone house built by Kurt Meyer during his spare time. The landscaping was beautiful, the house and grounds were spacious and the facilities up-to-the-minute. The work would do credit to the best in that line. Kurt Meyer hopes to complete the finishing touches by next spring.

An innovation for the nursery trade is the cooperative use of the radio. The North Jersey Metropolitan Nurserymen's Association has contracted for thirteen weeks over WNJR. The cost is met by the subscriptions of individual members,

FRUIT TREES

APPLE

	Each	Per 10	Per 100	Per 1000
2-yr., 11/16-in.	\$0.60	\$5.00	\$45.00	\$400.00
2-yr., 9/16-in. ....	.50	4.00	35.00	300.00
2-yr., 7/16-in. ....	.40	3.00	25.00	200.00
3-yr., ¾ to 1-in. ....	.75	6.50	60.00	550.00

Anoka
Bonum
Close
Cortland
Delicious
Double Red Delicious
Double Red Duchess
Double Red Jonathan
Double Red McIntosh
Double Red Rome

Double Red Stayman
Early Harvest
Early Red Bird
Galla Beauty
Grimes Golden
Hyslop Crab
Lodi
Lowry
McIntosh
M. B. Twig

Malden Blush
N. W. Greening
Paragon Winesap
Rome Beauty
Stayman
Summer Rambo
Winesap
Yellow Transparent
York Imperial

PEACH

	Each	Per 10	Per 100	Per 1000
9/16-in. up	\$0.50	\$4.50	\$40.00	\$350.00
7/16-in. ....	.40	3.50	30.00	250.00
2 to 3 ft. ....	.35	3.00	25.00	200.00

Belle of Georgia
Brackett
Champion
Elberta
Golden East
Golden Jubilee

Halehaven
Heath Cling
Hiley
J. H. Hale
Indian
Krummel

Lizzie
Mayflower
Redhaven
Summercrest
Sullivan's Early Elberta

CHERRY

	Each	Per 10	Per 100
11/16-in.	\$1.00	\$9.50	\$90.00
9/16-in. ....	.90	8.50	80.00
7/16-in. ....	.75	7.00	65.00

Early Richmond and Large Montmorency

PLUM

	Each	Per 10	Per 100
11/16-in.	\$0.85	\$8.00	\$70.00
9/16-in. ....	.75	6.50	60.00
7/16-in. ....	.60	5.00	45.00

Abundance
Burbank

Mammoth Golden
Red June

Shrophire Damson
Stanley Prune
Wickson

KIEFFER PEAR

	Each	Per 10	Per 100
2-yr., ¾ to 1-in.	\$0.75	\$6.50	\$60.00
2-yr., 11/16-in. ....	.60	4.50	40.00
2-yr., 9/16-in. ....	.40	3.50	30.00

WAYNESBORO NURSERIES

WAYNESBORO, VA.

ORNAMENTAL TREES

For Fall or Spring Delivery

CRAB, FLOWERING

Atroraginnen. Purple-bronze foliage, rosy-lavender flowers. Purplish fruit, 18 ft.
4 to 5 ft. \$ 8.00 \$ 75.00
3 to 4 ft. 6.50 60.00

Bechtel's, Double Flow-

ering. Large, double, pink, rose-like flowers. Fragrant.
3 to 4 ft. 8.00 75.00
2 to 3 ft. 5.50 50.00
18 to 24 inches 4.50 40.00

Dolgo. White flowers, large showy red fruits, good for jelly.
5 to 6 ft. 8.00 75.00
4 to 5 ft. 5.50 50.00

Eleyl. Foliage red in spring, flowers vinous red, single; fruit, red.
40 ft. 11.00 100.00
5 to 6 ft. 8.00 75.00
4 to 5 ft. 6.50 60.00

Hopa. Brilliant display of pink flowers in spring.
6 to 7 ft. 11.00 100.00
5 to 6 ft. 8.00 75.00
4 to 5 ft. 6.50 60.00
3 to 4 ft. 5.50 50.00

Neldzwetzkiana (Pumila). Single red flowers, red fruit, bark and wood reddish, 40 ft.
5 to 6 ft. 11.00 100.00
4 to 5 ft. 8.00 75.00
3 to 4 ft. 6.50 60.00

Red Silver. Silver and red foliage.
3 to 4 ft. 6.50 60.00

Scheideckerl. Flowers pale pink and semidouble. Yellow fruit, 25 ft.
5 to 6 ft. 11.00 100.00
4 to 5 ft. 8.00 75.00
3 to 4 ft. 6.50 60.00

Thelfera.
5 to 6 ft. 11.00 100.00
4 to 5 ft. 8.00 75.00
3 to 4 ft. 6.50 60.00

ROSE ACACIA STANDARDS (ROBINIA HISPIDA). Compact globe-shaped top with large showy clusters of bright pink flowers. We will cut tops back before shipment to prevent damage in transit.

5 to 6-ft. stems 20.00 175.00
4 to 5 ft. 17.50 150.00
3 to 4-ft. stems 15.00 135.00

PEACH, DOUBLE FLOWERING (PRUNUS). Burbank. Double, pink bud opening white.

Camelliaflora. Large, fully double, deep red flowers.
5 to 6 ft. 8.50 75.00
4 to 5 ft. 6.50 60.00
3 to 4 ft. 5.50 50.00

Peppermint Stick. Large red and white striped flowers.
5 to 6 ft. 8.50 75.00
4 to 5 ft. 6.50 60.00
3 to 4 ft. 5.50 50.00

San Jose. Clear pink flowers, earliest to bloom.
5 to 6 ft. 8.50 75.00
4 to 5 ft. 6.50 60.00
3 to 4 ft. 5.50 50.00

Snowbank. Snow white flowers.
5 to 6 ft. 8.50 75.00
4 to 5 ft. 6.50 60.00
3 to 4 ft. 5.50 50.00



Catalpa bungei. Note straight stems and full round heads.

CATALPA BUNGEI (UMBRELLA CATALPA). Formal round headed trees with large leaves.
5-foot stems \$14.00 \$125.00

PLUM, ORNAMENTAL (PRUNUS)

Birelana. Reddish-purplish foliage; large double pink flowers, unusually fragrant.

5 to 6 ft. 12.00 110.00
4 to 5 ft. 10.00 90.00

Hansen Bush Cherry (P. besseyi). Attractive ornamental shrub that bears heavy crops of edible fruit. Foliage turns rich colors in autumn.

2 to 4 ft. 4.00 35.00
2 to 3 ft. 2.90 25.00
18 to 24 ins. 2.40 20.00

Thundercloud. New. Strong upright growth with deep purple foliage. Holds color better than others.

5 to 6 ft. 12.00 110.00
4 to 5 ft. 10.00 90.00
3 to 4 ft. 7.50 70.00

PLUM—(Cont.)

Newport. Purple foliage with red tips.
5 to 6 ft. \$12.00 \$110.00
4 to 5 ft. 10.00 90.00
3 to 4 ft. 7.50 70.00

Triloba (Double Flowering Plum).

Slender branches. Thickly set double pink flowers, 10 ft.
4 to 5 ft. 10.00 90.00
3 to 4 ft. 8.00 70.00
2 to 3 ft. 7.00 60.00

POPLAR, BOLLEANA (P. ALBA BOLLEANA).

Leaves shaped like those of soft Maple; dark green above, silvery underneath. Rapid grower, slender columnar form. Green bark, 75 ft.
5 to 6 ft. 6.50 60.00
4 to 5 ft. 4.50 40.00

POPLAR, LOMBARDY.

Grows rapidly in tall slender columnar form. Flow branched, 90 ft.
6 to 8 ft. 4.50 40.00
5 to 6 ft. 2.90 25.00
4 to 5 ft. 2.20 18.00

WILLIS NURSERY CO. "Your Wholesale Nurserymen" **Ottawa, Kansas**

who are allotted time according to reservation. The program, called "Country Folks," is on the air daily Monday through Saturday at 12 to 1 p. m. Will Peigelbeck, the broadcaster, says that the time has been fully subscribed.

Regular meetings of this association are held on the third Thursday of the month and rotated through three counties, Essex, Passaic and Bergen, in the order mentioned. This meeting in Warren county was an exception.

The next meeting will be at Harman's office, 246 Bloomfield avenue, Caldwell, October 20, at 8 p. m.
William Flavell, Sec'y.

AN irrigation system has been installed recently by B. B. Williamson, owner of Williamson's Nursery, near Oklahoma City, Okla., on his 100-acre farm. Six-inch pipes carry the water that is pumped from three lakes on the farm. Mr. Williamson plans to irrigate fifty acres of alfalfa with the new system this fall.

Let SHERMAN'S supply your needs in...

Apple Trees
Plum Trees
Cherries
Small Fruits
Ornamental Shrubs
Shade Trees
Phlox
Roses
Perennials

Write for quantity prices on the above.

SHERMAN NURSERY CO.
CHARLES CITY, IOWA

FOREST NURSERY CO., Inc.

McMINNVILLE, TENN.

We have to offer for Fall, 1949, delivery the following assortment of Coniferous, Broad-leaved and Lining-out Evergreens in the grades listed. We are in a position to make most attractive quotations on carload or truckload lots. If interested in truckload delivery, write us and we will make quotations F.O.B. your nursery.

"WE ARE NOT IN THE JAPANESE BEETLE ZONE"

AMERICAN GLOBE ARBORVITAE, 15 to 18 ins. and 18 to 24 ins.
AMERICAN PYRAMIDAL ARBORVITAE, 24 to 30 ins., 30 to 36 ins. and 3 to 4 ft.
PFITZER JUNIPER, 15 to 18 ins., 18 to 24 ins. and 24 to 30 ins.
HEMLOCK (Canadian), 18 to 24 ins., 24 to 30 ins. and 30 to 36 ins.
All Above Evergreen Sold Only in Connection With an Equal Number of the Varieties Listed Below.

ANDORRA JUNIPER, 18 to 24 ins. and 24 to 30 ins.
ASHFORD JUNIPER, 24 to 30 ins., 30 to 36 ins., 3 to 4 ft. and 4 to 5 ft.
BAKER'S ARBORVITAE, 18 to 24 ins., 24 to 30 ins. and 30 to 36 ins.
BERCKMANN'S GOLDEN ARBORVITAE, 15 to 18 ins. and 18 to 24 ins.
COLUMNAR IRISH JUNIPER (*Fastigiata*), 24 to 30 ins., 30 to 36 ins., 3 to 4 ft. and 4 to 5 ft.
ENGLISH JUNIPER, 24 to 30 ins., 30 to 36 ins. and 3 to 4 ft.
EXCELSA ARBORVITAE (*Biota*), 18 to 24 ins., 24 to 30 ins. and 30 to 36 ins.
GOLDEN PYRAMIDAL ARBORVITAE, 18 to 24 ins., 24 to 30 ins. and 30 to 36 ins.
HETZI JUNIPER (Blue spreader, resembling Pfitzer), 24 to 30 ins. and 30 to 36 ins.
IRISH JUNIPER, 18 to 24 ins., 24 to 30 ins., 30 to 36 ins., 3 to 4 ft. and 4 to 5 ft.
SAVIN JUNIPER, 15 to 18 ins., 18 to 24 ins. and 24 to 30 ins.
SPINY GREEK JUNIPER, 15 to 18 ins., 18 to 24 ins., 24 to 30 ins. and 30 to 36 ins.
SPRUCE, BLACK HILL, 18 to 24 ins. and 24 to 30 ins.
SPRUCE, NORWAY, 18 to 24 ins., 24 to 30 ins. and 3 to 4 ft.
SPRUCE, WHITE, 18 to 24 ins. and 24 to 30 ins.
RETINOSPORA, GOLD PLUME, 18 to 24 ins., 24 to 30 ins., 30 to 36 ins. and 3 to 4 ft.
NANDINA DOMESTICA, 12 to 18 ins., 18 to 24 ins. and 24 to 30 ins.

LINING-OUT EVERGREENS

AMERICAN HOLLY (*Ilex Opaca*), 2 1/4-in., Pot Plants.
HEMLOCK (Canadian), Tr., Bare-root, 4 to 6 ins., 6 to 9 ins., 9 to 12 ins. and 12 to 15 ins.

GRAFTING UNDERSTOCK

JUNIPERUS VIRGINIANA (Red Cedar), 2/16 ins. to 3/16-in. cal. Tr., 3/16 ins. to 1/4-in. cal. Tr., 1/4-in. cal. Tr. and up.

We also have other varieties of Evergreens not listed, due to the fact that we do not have them in sufficient quantities to warrant their listing. Therefore, we ask that you please give us the privilege of quoting on all your future wants. TRY US BEFORE BUYING AND SAVE MONEY.

We Specialize in Growing Both Lining-out and Finished Stock in Deciduous Shrubs, Forest and Shade Trees, Nut Trees, Vines and Creepers.

VISITORS ARE ALWAYS WELCOME

J. R. BOYD, President

Day Phone: 234

Night Phone: 17W or 446G

ONTARIO SHORT COURSE.

Attendance at the second annual short course for nurserymen held at the Ontario Agricultural College, Guelph, Ont., September 1 and 2, exceeded last year's. Over eighty-five nurserymen from Ontario, Quebec and the Maritime provinces were present.

Dr. J. S. Shoemaker, head of the department of horticulture, and his staff provided talks of benefit to the nurserymen. The practical side was fused with the theoretical and experimental practiced by the college.

Dr. W. H. Upshall, chief in research at the horticultural experimental station, Vineland, Ont., gave a particularly interesting talk on "Nursery Practices Displeasing to Fruit Growers."

A city landscape problem was aptly taken care of by J. A. Weall, department of horticulture, O. A. C. From his talk and illustrations many new ideas were given to the landscape nurserymen.

The control of diseases and insects was discussed by Dr. McLachlan, head of the department of botany, and Prof. H. W. Goble, provincial entomologist.

The problem of storage was continued from last year when E. W. Franklin, department of horticulture, gave further results on nursery stock shortage experiments. It was decided to continue storage research, particularly with the use of wax, in cooperation with the nurserymen.

Prof. R. Goodwin-Wilson stressed the importance of soil tests and explained the proper manner in which to obtain samples for testing in order to get true results.

The high light of the 2-day meeting was the bull session led by W. A. Hogle, Hogle Nursery Co., Campbellford, Ont. With a full attendance, Mr. Hogle started the discussion with his experience in planting a cedar hedge ten feet high. During the course of the evening, numerous topics were discussed, and there was a great deal of exchange of information. L. C. K.

MAIL ORDER OFFICERS.

The name of Clark Kidd, Arp Nurseries, Inc., Tyler, Tex., was omitted from the list of regional vice-presidents of the National Mail Order Nurserymen's Association when the list was announced in the September 15 issue.

The southern region has two regional vice-presidents, John Fraser, Sr., and Clark Kidd, states M. Vaughn Woodard, secretary-treasurer.

LINERS

FINISHED MATERIALS

General Line of Ornamentals.

See our Fall Trade List offering in quantity.

Berberis thunbergi, 15 to 24 ins.
Berberis thunbergi atropurpurea, 15 to 30 ins.
Philadelphus virginialis, 18 to 36 ins.
Ligustrum, Amur River North, 15 to 48 ins.
Hybrid Azaleas, 18 to 30 ins.
Ampelopsis quinquefolia, 3-yr.

FAIRVIEW EVERGREEN NURSERIES

Fairview, Pa.

JEWELL - - - A few specialties available for either early Fall or Spring, 1950, delivery

ORNAMENTAL TREES

	Per 100	Per 1000
Birch, American White		
5 to 6 ft.	\$ 90.00	
6 to 8 ft.	120.00	\$1100.00
8 to 10 ft.	165.00	
Birch, European White		
4 to 5 ft.	70.00	600.00
5 to 6 ft.	100.00	
6 to 8 ft.	110.00	
Maple, Golden		
5 to 6 ft.	75.00	
6 to 8 ft.	100.00	
Maple, Silver		
8 to 10 ft.	100.00	850.00
1 1/2 to 2 ins.	175.00	
Mountain Ash, European		
4 to 5 ft.	70.00	600.00
5 to 6 ft.	100.00	
Poplar, Bolleana		
6 to 8 ft.	85.00	700.00
8 to 10 ft.	120.00	
Poplar, Lombardy		
6 to 8 ft.	35.00	300.00
8 to 10 ft.	50.00	450.00
Prunus, Newport		
2 to 4 ft.	65.00	600.00
4 to 5 ft.	80.00	
Prunus, Triloba		
2 to 3 ft.	70.00	
3 to 4 ft.	80.00	750.00
4 to 5 ft.	95.00	
Willow, Niohe Weeping		
5 to 6 ft.	50.00	450.00
6 to 8 ft.	80.00	750.00
Willow, Wisconsin Weeping		
5 to 6 ft.	50.00	450.00
6 to 8 ft.	80.00	750.00

ORNAMENTAL SHRUBS

Almond, Pink-flowering		
18 to 24 ins.	35.00	
2 to 3 ft.	45.00	400.00
Barberry, Red-leaved		
15 to 18 ins.	28.00	250.00
18 to 24 ins.	35.00	300.00
Barberry, Green		
2 to 3 ft.	20.00	180.00
3 to 4 ft.	25.00	220.00
Honeysuckle, Zabeli		
2 to 3 ft.	28.00	270.00
3 to 4 ft.	35.00	320.00
Lilac, Persian Purple		
2 to 3 ft.	30.00	275.00
3 to 4 ft.	40.00	

The above listed items are a few of the specialties in our well rounded offering of hardy, northern-grown stock available for early fall or for spring, 1950, delivery. If you have not received your copy of our complete Fall '49-Spring '50 Catalog, please let us hear from you.

ORNAMENTAL SHRUBS—(Cont.)

Philadelphus, Minn. Snowflake (Plant Patent No. 338)	Per 100	Per 1000
2 to 3 ft.	\$35.00	
3 to 4 ft.	70.00	
4 to 5 ft.	85.00	
Privet, Lodense		
9 to 12 ins.	15.00	\$120.00
12 to 15 ins.	20.00	160.00
15 to 18 ins.	26.00	220.00
Spiraea Prunifolia		
18 to 24 ins.	30.00	
2 to 3 ft.	40.00	
Tamarix Hispana		
2 to 3 ft.	28.00	
3 to 4 ft.	35.00	320.00
Weigela, Bristol Ruby (Plant Pat. No. 492)		
18 to 24 ins.	50.00	
2 to 3 ft.	70.00	

ORNAMENTAL SEEDLINGS

Maple, Ginnala		
18 to 24 ins.	3.50	30.00
2 to 3 ft.	4.50	40.00
3 to 4 ft.	7.00	65.00
Mountain Ash, European		
6 to 12 ins.	5.50	50.00
12 to 18 ins.	7.50	70.00
18 to 24 ins.	10.00	90.00
2 to 3 ft.	15.00	135.00
3 to 4 ft.	22.00	
Russian Olive		
2 to 3 ft.	6.00	55.00
3 to 4 ft.	8.50	70.00

PERENNIALS

Bleeding Heart, Old-fashioned		
3 to 5 eye	30.00	250.00
2 to 8 eye	35.00	300.00
Lithrum, Morden Hardy Pink, field-grown, No. 1	15.00	120.00

EVERGREEN LINERS

Well established 2 1/2-in. pot plants from our greenhouses		
American Dark Green Arborvitae	20.00	180.00
Globe Jewell Arborvitae	20.00	180.00
Globe woodwardi Arborvitae	20.00	180.00
Jewell pyramidal Arborvitae	20.00	180.00
Juniperus Andorra	18.00	160.00
Juniperus communis aurea	20.00	180.00
Juniperus glauca hetzi	22.00	200.00
Juniperus kosteri	20.00	180.00
Juniperus Pfitzeriana	22.00	200.00
Juniperus Sabina	20.00	180.00

JEWELL NURSERIES, Inc.

Box 457, Lake City, Minn.

The next meeting of the association will be at 3 p. m. January 16, the day preceding the opening of the convention of the Illinois State Nurserymen's Association, at the Hotel La Salle, Chicago, Ill.

ALTHOUGH George Frank & Son are still located in the same place, rerouting has caused their mailing address to be changed: from East Rochester to Penfield, N. Y.

CHARLES PAULSEN, of Paulsen Nursery, Minden, Neb., recently bought Hansen Greenhouse & Floral Shop, Minden. The greenhouse, floral shop and nursery stock will be moved to Paulsen Nursery, and Mrs. Paulsen will be in charge of the florists' part of the business.

EVERGREENS, BROAD-LEAVED and CONIFEROUS

	Each	Per 10	Per 100
Berberis julianae , 18 to 24 ins.	\$2.00	\$17.50	
Berberis julianae , 2 to 3 ft.	3.00	27.50	
Berberis verruculosa , 12 to 15 ins.	1.75	15.00	
Berberis verruculosa , 15 to 18 ins.	2.25	20.00	
Buxus sempervirens , 8 to 10 ins., trans., puddled roots		4.00	\$35.00
Buxus sempervirens , 10 to 12 ins., trans., puddled roots		6.50	60.00
Ilex crenata rotundifolia , 15 to 18 ins.	1.75	15.00	
Ilex crenata rotundifolia , 18 to 24 ins.	2.25	20.00	
Pyraecantha angustifolia and rogersi , 2 to 3 ft.	2.00	17.50	
Pyraecantha angustifolia and rogersi , 3 to 4 ft.	3.00	27.50	
Pyraecantha angustifolia and rogersi , 4 to 5 ft.	4.00	37.50	
Rhododendron cutchawbiense , 2 to 3 ft.	2.75	25.00	
Rhododendron maximum , 2 to 3 ft.	2.50	22.50	
Rhododendron maximum , 3 to 4 ft.	3.70	32.50	
Viburnum rhytidophyllum , 3 to 4 ft.	3.70	32.50	
Juniper, Irish , 2 to 4 ft.	2.50	22.50	
Juniper, Meyer's , 24 to 30 ins.	2.70	22.50	
Juniper, Meyer's , 20 to 26 ins.	3.25	30.00	
Taxus cuspidata, capitata and hicksi , 15 to 18 ins.	2.75	25.00	
Taxus cuspidata, capitata and hicksi , 18 to 24 ins.	3.70	32.50	
Taxus cuspidata, capitata and hicksi , 24 to 30 ins.	4.25	40.00	
Taxus cuspidata , 15 to 18 ins.	2.75	25.00	
Taxus cuspidata , 18 to 24 ins.	3.50	32.50	

NOTE: All Evergreens dug balled and burlapped, with exceptions noted.

Submit your list for quotations on other varieties and sizes.

WAYNESBORO NURSERIES,

Waynesboro, Va.

WE ARE MOVING OUR GROWING HEADQUARTERS

The following stock must be moved by February 15, 1950, because we have moved our nurseries and growing quarters. All nice 1, 2 and 3-year-old, vigorous, healthy stock. We offer the following discounts for cash with orders before November 1, 1949. Stock quoted F.O.B. McMinnville, Tenn.

Order from this advertisement. Some quantity rates were printed incorrectly in the Sept. 15 issue.

Discounts { 5%—\$ 100.00 to \$ 500.00
for cash { 10%— 500.00 to 1000.00
with order. { 15%— 1000.00 and up

SHRUBS

Althea, Boule de Feu. Double red althea.	
Nice two-year-old althea.	Per 100
18 to 24 ins., branched.	\$10.00
2 to 3 ft., branched.	15.00
3 to 4 ft., branched.	20.00
Berberis Thunbergi. Green-leaved barberry.	
Real nice 2-year seedlings.	
field-grown.	
12 to 15 ins., branched.	7.00
15 to 18 ins., branched.	10.00
18 to 24 ins., branched.	15.00
Deutzia, Pride of Rochester. This is nice heavy stock good for landscape and retail trade.	
18 to 24 ins., branched.	10.00
2 to 3 ft., branched.	12.00
3 to 4 ft., branched.	15.00
Forsythia Fortunei, Golden Bell. Nice 2-year stock that has made vigorous growth.	
18 to 24 ins., branched.	12.00
2 to 3 ft., branched.	15.00
3 to 4 ft., branched.	20.00
Ligustrum Amurensis. Amur River North Privet.	
Nice 1 and 2-year stock.	Per 1000
R/c and single stems.	\$12.50
6 to 12 ins., 2 br. and up.	25.00
12 to 18 ins., 2 br.	35.00
12 to 18 ins., 3 br. and up.	45.00
18 to 24 ins., 2 br.	45.00
18 to 24 ins., 3 br. and up.	60.00
2 to 3 ft., 2 and 3 canes.	65.00
2 to 3 ft., 4 br. and up.	75.00
Ligustrum Ovalifolium. California Privet.	
One and 2-year stock.	
R/c and single stems.	15.00
6 to 12 ins., 2 br. and up.	20.00
Grafting size, about 3/16-in.	20.00
Grafting size, 1/4-in. and up.	25.00
12 to 18 ins., 2 br.	25.00
12 to 18 ins., 3 br. and up.	30.00
18 to 24 ins., 2 br.	30.00
18 to 24 ins., 3 br. and up.	40.00
2 to 3 ft., 2 and 3 canes.	45.00
2 to 3 ft., 4 br. and up.	50.00
3 to 4 ft., 4 br. and up.	70.00
Spiraea Callosa Rosea. Fortune spiraea.	
Nice 2-year transplants.	Per 100
12 to 18 ins., tr. br.	\$10.00
18 to 24 ins., tr. br.	15.00
2 to 3 ft., tr. br.	20.00
Spiraea Van Houttei. Van Houttei Spiraea.	
Nice 2-year stock.	
12 to 18 ins., well br.	8.00
18 to 24 ins., well br.	10.00
2 to 3 ft., well br.	15.00

SEND US YOUR WANT LIST

If you have not received our price list, write for it.

Boyd
NURSERY COMPANY
McMinnville, Tennessee

SHADE TREES

Cercis Canadensis. Redbud.	Per 100
3 to 4 ft., br.	\$35.00
4 to 5 ft., br.	50.00
5 to 6 ft., br.	75.00
Cornus Florida. White-flowering Dogwood.	
18 to 24 ins., br.	25.00
18 to 24 ins., tr.	35.00
2 to 4 ft., br.	50.00
Cladrastis Lutea. Yellowwood.	
12 to 18 ins., tr.	15.00
18 to 24 ins., tr.	25.00
2 to 3 ft., tr.	35.00
Diospyros Virginiana. American Persimmon.	Per 1000
4 to 6 ins., s.	\$15.00
6 to 8 ins., s.	20.00
9 to 12 ins., s.	20.00
12 to 18 ins., s.	40.00
Gleditsia Triacanthos. Common Honey Locust.	
12 to 18 ins., s.	15.00
18 to 24 ins., s.	20.00
2 to 3 ft., s.	25.00
3 to 4 ft., s.	30.00
Gymnocladus Dioicus. Kentucky Coffee Tree.	Per 100
6 to 12 ins., s.	\$10.00
12 to 18 ins., s.	12.50
18 to 24 ins., s.	17.50
2 to 3 ft., s.	25.00
Hicoria Lacinosa. Shagbark Hickory.	Per 1000
Two and 3-year seedlings.	
4 to 6 ins., s.	\$10.00
6 to 12 ins., s.	50.00
12 to 18 ins., s.	75.00
Hicoria Ovata. Shagbark Hickory.	
Two and 3-year seedlings.	
4 to 6 ins., s.	40.00
6 to 12 ins., s.	50.00
12 to 18 ins., s.	75.00
Morus Alba Tatarica. Russian Mulberry.	
One-year seedlings.	
4 to 6 ins., s.	7.50
6 to 12 ins., s.	10.00
12 to 18 ins., s.	15.00
18 to 24 ins., s.	20.00
2 to 3 ft., s.	25.00
3 to 4 ft., s.	40.00
Quercus. Oak. Alba, White Oak; Prinus, Chestnut Oak; Quercus, Scarlet Swamp Oak.	Per 100
4 to 5 ft., br.	\$ 75.00
5 to 6 ft., br.	90.00
6 to 8 ft., br.	100.00
8 to 10 ft., br.	150.00
Robinia Pseudoacacia. Black Locust.	
One-year seedlings.	Per 1000
4 to 6 ins., s.	\$ 4.50
6 to 12 ins., s.	6.00
12 to 18 ins., s.	10.00
18 to 24 ins., s.	12.50
2 to 3 ft., s.	15.00
Ulmus Pumila. Chinese Elm. Well branched with a straight body. Very nice 2-year transplants.	Per 100
3 to 4 ft., tr. br.	\$ 30.00
4 to 5 ft., tr. br.	40.00
5 to 6 ft., tr. br.	50.00
6 to 8 ft., tr. br.	75.00
8 to 10 ft., tr. br.	100.00
Juglans Nigra. Black Walnut. A real bargain in nut trees.	Per 100 Per 1000
6 to 12 ins., s.	\$ 2.50 \$20.00
12 to 18 ins., s.	3.50 30.00
18 to 24 ins., s.	4.50 40.00
2 to 3 ft., s.	6.50 60.00
3 to 4 ft., br.	25.00
4 to 5 ft., br.	40.00
5 to 6 ft., br.	50.00

CATALOGS RECEIVED.

Carlton Nursery Co., Forest Grove, Ore.—Wholesale illustrated price list of shade, fruit and nut trees, hardy perennials and small fruits; 12 pages, 4 1/4 x 9 inches.

W. B. Clarke & Co., San Jose, Calif.—Wholesale descriptive price list of evergreens, deciduous trees and shrubs, bush and climbing roses, fruit trees and perennials; 13 pages and cover, 8 1/4 x 10 1/2 inches.

George L. Ehrle, Clifton, N. J.—Wholesale descriptive price list of hemerocallis, irises and peonies; 8-page folder, 4 x 8 1/2 inches.

Evergreen Nursery Co., Sturgeon Bay, Wis.—Wholesale price list of lining-out stock, specimen evergreens and perennials; 8-page folder, 3 1/2 x 8 1/2 inches.

Weller Nurseries Co., Inc., Holland, Mich.—Wholesale descriptive price list of herbaceous perennials and rock and alpine plants; 20 pages, 6 x 9 inches.

Isaac Langley Williams, Exeter, N. H.—Wholesale price list of native plants; 16 pages and cover, 6 x 9 inches.

McMinnville Tree Co., McMinnville, Tenn.—Wholesale descriptive price list of evergreens, ornamental and shade trees, deciduous shrubs, hedge plants and vines; 8 pages, 4 x 9 inches.

H. M. Hardyzer's Nurseries, Boskoop, Holland—Wholesale price list of trees, shrubs and perennials; 20 pages and cover, 5 1/2 x 8 1/2 inches.

Boyd Nursery Co., Inc., McMinnville, Tenn.—Wholesale price list of evergreen liners, shade trees, flowering shrubs and vines; 4-page folder, 10 x 14 inches.

Possum Hollow Nurseries, Philadelphia, Pa.—Wholesale price list of lining-out stock; 2 pages, 6 x 13 1/2 inches.

Wayland Dahlia Gardens, Wayland, Mich.—Wholesale descriptive price list of dahlia roots; 8 pages, 8 1/2 x 10 inches.

Wherry's Nurseries, St. Marys, W. Va.—Wholesale price list of evergreens and flowering shrubs; 4 pages, 8 1/2 x 11 inches.

Edward J. Gardner Nursery, Horicon, Wis.—Retail price list of lilacs and flowering shrubs; 4 pages, 8 1/2 x 14 inches.

Louis Smirnow, Great Neck, N. Y.—Retail descriptive price list of tree peonies; 12 pages, 6 x 9 inches.

C. F. Wassenberg, Van Wert, O.—Retail price list of peonies and irises; 4 pages, 8 1/2 x 14 inches.

Earl Ferris Nursery, Hampton, Ia.—Retail catalog of evergreens, shade trees, flowering trees and shrubs, roses and bulbs; illustrated in color; 24 pages, 10 1/4 x 12 1/2 inches.

DAHLIA SHOW AT CHICAGO.

The eighteenth annual show of the Central States Dahlia Society was held at the Garfield park conservatory, Chicago, Ill., September 17 and 18. Entries were largely from amateurs and overflowed the hall used for such exhibits into adjoining rooms of the conservatory. Quality was good, and the range of exhibits was high.

The rock terrace at the farther end of the exhibition hall was devoted to a complimentary display by the Northbrook Dahlia Gardens, Northbrook, Ill., exhibiting many vases of

BUY BURR'S APPROVED BARBERRY

Our blocks of Red and Green Barberry have been inspected and certified for interstate shipment by the United States Department of Agriculture. Barberry must now be purchased from a certified source that has complied with the regulations of Federal Black Stem Rust Quarantine No. 38 in order that it may be resold or moved interstate.

We are offering *Berberis Thunbergi* in both 2-year untransplanted stock and in 3-year transplants. We also have a quantity of *Berberis Thunbergi Atropurpurea* in 3-year transplants.

We suggest that you contact us for our best prices for the quantity which you need.



C. R. BURR & COMPANY, Inc.

Manchester, Conn.

"Growing Since '98"



huge flowers. At one side of the entrance, Kindlein's Flower Farm, Lake Forest, Ill., displayed an extensive assortment of named varieties, while Fitchett Dahlia Gardens, Janesville, Wis., had a similar display opposite. The Golden Rule Dahlia Farm, Lebanon, O., was the fourth commercial exhibitor, with vases of fine blooms.

Among the prize-winners who staged entries in numerous classes were G. L. Pierce, Summit Gardens, Villa Park; J. H. Heineman, Milwaukee, Wis.; Ben Makowski, Milwaukee, Wis., who dominated the classes for single flowers of king size; John Schramel, Chicago, also prominent in the king-size classes; J. M. Neill, Chicago, and Jesse L. Strauss, Glencoe, Ill.

Fred L. Trauth, Chicago, is president of the organization, and W. H. Wickham, 221 Indiana street, Elmhurst, Ill., corresponding secretary. Glenn L. Pierce, Villa Park, who is vice-president, acted as show chairman.

THE first son recently born to Mr. and Mrs. H. E. Rosedale will be named after his father, Harry Edwin Rosedale, who is president of the Monrovia Nursery Co., Monrovia, Calif. He also has two daughters.



SPECIMEN EVERGREENS FOR FALL PLANTING (B & B)

Carload or Truck only.

Arborvitae, Pyramids	2 to 3 ft.
Arborvitae, Pyramids	3 to 4 ft.
Arborvitae, Globes	12 to 15 ins.
Arborvitae, Globes	18 to 24 ins.

Blue Spruce, fine specimens, good color	3 to 5 ft.
Norway Spruce, fine for windbreaks	2 to 3 ft.
Sheared Pines, assorted varieties	3 to 5 ft.

SCOTCH GROVE NURSERY

SCOTCH GROVE, IOWA

TAXUS

Our Taxus are especially nice this season; compact, dark green and three times transplanted.

Varieties including: *Cuspidata*, *Capitata*, *Hicksi*, *Browni* and *Repandens*.

Also specimen landscape material. Send for list.

W. A. NATORP CO., Cincinnati 29, Ohio

Plant Notes Here and There

By C. W. Wood

It seems that it takes a world of convulsion to start new dwarf asters out of their hiding. It was only a few years after World War I that we commenced to see that intriguing race of foot-tall asters which culminated in such charmers as the 9-inch, pink Countess of Dudley and the 6-inch, pure white Niobe. Now we have coming out of the workshop of Professor Breithaupt, of Oregon, a different class, the result of crossing tall garden asters and a dwarf unnamed species. Some of them, including Pacific Horizon, commence to bloom in August instead of the September and October of the former race. Their early-flowering habit is not their only recommendation, for the attractive blue shade of Pacific Horizon, its compact growth of a foot or less and the prodigious number of flowers between August and October mark it for many uses in gardens.

Aster Plenty.

While on the subject of asters, I should like to call attention to the new English aster, Plenty, one of the brightest spots in the tall (to four feet) aster parade that I have seen for some time. As far as I have been able to see, it has about everything that an aster could have, including good size of flower (two inches across), an entrancing soft blue color, heavy flower production and a good constitution. So far as I know at the moment, it is not protected by a patent; so propagation would not be restricted. It should be good property in any neighborhood grower's hands.

Shasta Daisy White Giant.

Double Shasta daisies so often have some quirk in their culture that I was interested last summer in watching a planting of the new variety, White Giant, in a friend's commercial plantation. I have been favorably impressed by its splendid behavior so far. From a cut flower standpoint, its fully double flowers, about two and one-half inches across, are much superior to built-up centers of Mount Shasta, one of my favorites. Its size does not compare favorably with the four inches or more of Mount Shasta until one stops to consider that much of the latter's size is made by its double row of guard petals. Because the local planting is only a year old, the hardiness of the plant here in northern Michigan is undetermined.

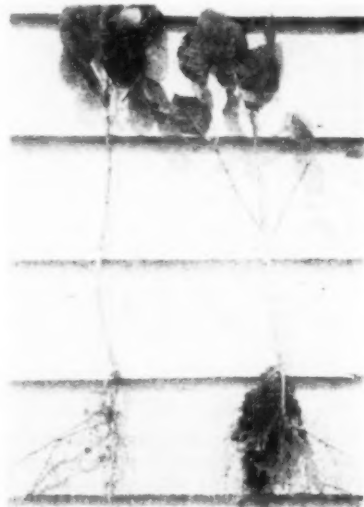
but even if tender it would be worth the work of carrying it over winter in a frame to a cut flower grower. And all that has been said here does not depreciate in the least its value as a garden flower.

Dianthus Sylvestris.

A request from a Missouri reader for some information on *Dianthus sylvestris* sent me scurrying back through memory to renew acquaintance with that worthy plant. That excursion, coupled with some notes made close to twenty years ago, when I first found what I think was true *D. sylvestris*, brought forth the following: Being a gardener, rather than a botanist, I always commence to write about a pink with tongue in cheek, knowing that I am traveling an uncertain path when I try to trace one of the plants to the spot where a naming botanist left it. That is especially true when I reach the plant known to me as *D. sylvestris*. I suppose the original description of the species called for a red flower, because that is the color most frequent-

ly ascribed to it in literature, yet that color seldom, if ever, appears in gardens, according to experience here and observation in other gardens. This state of affairs is no doubt explained by the other terms, "very variable" and "polymorphous," which the botanists have applied to it.

As I remember the plant and as my notes confirm, it was constant in a deep salmon-pink shade—a pleasing shade, which, combined with a blooming season in July and August, made it a worthy garden plant. Being partial to pinks, I often see beauty and usefulness in kinds which others would consider commonplace, but *D. sylvestris* is one that carries its unimpeachable recommendations with it. It would be deserving of attention for no other reason than its habit of blooming in summer, but it also has



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other characteristics, such as ease of culture, beauty of form and a long flowering period, which are ordinarily associated with the perfect garden plant.

It makes a tufted growth of long, narrow leaves (green in color, according to some authorities, and glaucous, according to others, although nearly always bluish in plants that I have seen), from which spring stems up to a foot in length, bearing three (usually) salmon-pink flowers, somewhat small for the length of the stem, and odorless, hence the other term, inodorous, for the species.

Phlox Diffusa.

Some recent correspondence with a nurseryman who tried *Phlox adurgens* on the strength of recommendations he read in this column several years ago brought out the fact that he also had had splendid success with *P. diffusa*. His experience so nearly coincides with ours of some years ago that it is being mentioned now with the hope that others will be attracted to the plant.

Although western phloxes have a bad name among eastern gardeners and nurserymen, often with good reason, *P. diffusa* should not be put in that class, if one is to judge by experience here. Except for *P. ad-*

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surgens, which is of easy culture when given its few needs (another story which will not be discussed at this time), *P. diffusa* is one of the most amenable western species that I know, doing well here in almost pure sand and gravel to a depth of six inches, under which was a layer of leafy soil and gravel. That and full sun (perhaps dappled shade in a hot climate) seem to suit it well. As noted before, these westerners which have long been considered too temperamental for the east will often settle down in our gardens when the right conditions are found.

Another point to be considered in the taming of western wildlings is the different reactions of individual plants to garden ways, one absolutely refusing to have anything to do with the gardener while another of the same species may be extremely amiable. That is why I always like to start an adventure among the untamed varieties with seeds rather than plants. Take, for instance, the western irises, which one is likely to find impossible to establish in plants, while home-grown seedlings of most kinds are easily satisfied. The same conditions prevail among many of the phloxes. There is the disadvantage with seedlings of having to wait a year or two longer for the first blooming; on the other hand, the growing of western phloxes from seeds has the advantage of supplying one with a rather wide range of colors, which in our present plant may vary from pure white through shades of pink to lavender. It is always prostrate, as far as experience here has shown, its woody stems hugging the ground.

Autumn Landscape Problems.

Autumn is a season of bright colors. Many gardeners express displeasure at lively shades when they come in spring and early summer. Observe these persons now, however, and you will probably see them welcoming all the colors, especially purples and scarlets, and even magenta, all of which they detested earlier. It is true that most magenta haters have to be shown before they are ready to ascribe any virtue to the shade, but the hatred may often be overcome by example. I remember a frequent visitor to this garden, years ago when it was a garden—a woman of no mean achievements as a gardener—who showed her displeasure of magenta until she came one early September day and saw a wide spread of *Callirhoe involucrata* (anathema to all aesthetic souls) growing among the blue *Caryopteris mongoliensis*. Although it took several visits to convince her that magenta could be used

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in pleasing associations, prejudice was finally overcome.

There is, no doubt, some justification for the popular belief that red and yellow do not combine well. I have not a little feeling that way myself during the hot days of summer, but when the cool days of autumn come, that feeling is entirely absent. I suspect that most others react in a similar manner. As a personal example, I might say that, until the advent of a pure yellow, I had little liking for gaillardias. They were well enough in autumn, but during the summer their harsh combination of red and yellow introduced a jarring note in nearly all associations. On the other hand, when the garden is sinking to rest, not only gaillardias, but other combinations of red and yellow, such as kniphofias and Lobelia cardinalis planted in front of soft yellow heleniums, knit a close and usually pleasing picture.

A Spring Combination.

A reader of this column writes the following, and I use it with his permission:

"I wanted you to know how much pleasure the planting which you suggested a few years ago has given my customer. He was telling me a few days ago that the blue and yellow planting in which *Kerria japonica* served as a background for *Doronicum caucasicum* and *Polemonium reptans* is one of the highlights of their May garden.

"A little later in the month the planting of *Aquilegia flabellata* nana

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Azalea kaempferi hyb., 4 to 6 ins., XX, 2-yr.	.25	.22
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Azalea kaempferi hyb., 9 to 12 ins., XX, 3-yr.	.45	.40
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Chamaecyparis lawsoniana , 8 to 12 ins., sdig., 2-yr.	.10	.08
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Chamaecyparis laws. allumi , X, 10 to 15 ins., 2-yr.	.20	.18
Chamaecyparis filifera aurea , 4 to 8 ins., X, 1-yr.	.15	.12
Chamaecyparis filifera aurea , 6 to 10 ins., XX, 2-yr.	.22	.20
Chamaecyparis pisifera aurea , 6 to 10 ins., X, 1-yr.	.15	.12
Chamaecyparis pisifera aurea , 9 to 12 ins., XX, 2-yr.	.20	.18
Chamaecyparis plumosa aurea , 4 to 6 ins., X, 1-yr.	.15	.13
Chamaecyparis plumosa aurea , 6 to 9 ins., XX, 2-yr.	.22	.20
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Juniperus glauca hetzli , 12 to 15 ins., XX, 2-yr.	.35	.32
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Juniperus horizontalis glauca , 8 to 12 ins., XX, 2-yr.	.25	.22
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Leucothoe catesbaei , 6 to 12 ins., X, 2-yr.	.25	.22
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Taxus capitata , 6 to 8 ins., XX, 2-yr.	.25	.22
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Dwarf Montana			
Mugho Pine, 2-0, 2 to 4 ins.....		4.00	25.00
Mugho Pine, 3-0, 2 to 4 ins.....		4.50	35.00
Austrian Pine, 2-0, 2 to 4 ins.....		5.00	35.00
White or Black Hills Spruce, bed run, 3000 in 1 to 4-in. size.....			100.00
Green Barberry, 2-0, 3 to 6 ins.....		2.50	9.00
Green Barberry, 2-0, 6 to 12 ins.....		3.00	12.00
Green Barberry, 2-0, bed run, 50% or more, 5000 6 to 12 ins.....			45.00
White Pine, 2-0, 2 to 4 ins.....		3.50	28.00
Oriental Cedar, 2-0, 2 to 5 ins.....		3.00	15.00
Papyrifera Birch, 2-0, 12 to 24 ins.....		7.50	50.00

Scotch Pine or other seedling samples on request.

Terms: Cash with order, please, or 25 per cent with order and balance before shipment.

Packing included in price; shipment by express collect.

25 at 100 rate; 250 at 1000 rate; will quote on 5000 or over.

E. C. MATTHEWS

Telephone: 123

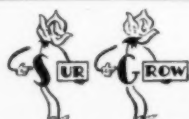
HARBOR SPRINGS, MICH.

SHADE TREES

	Each	Per 10
Ash, American White, 6 to 8 ft.....	\$1.75	\$16.00
Ash, American White, 8 to 10 ft.....	2.25	21.50
Catalpa speciosa, 6 to 8 ft.....	1.35	12.50
Elm, American, 6 to 8 ft.....	1.35	12.50
Elm, American, 8 to 10 ft.....	1.60	15.00
Elm, American, 10 to 12 ft.....	2.20	20.00
Flowering Cherry, weeping, 5-ft. stems, 2-yr. heads.....	7.00	65.00
Flowering Cherry, single light pink and double dark pink, 3 to 4 ft.....	1.85	17.50
Flowering Cherry, single light pink and double dark pink, 4 to 6 ft.....	2.50	23.00
Flowering Peach, red, 3 to 4 ft.....	.75	6.50
Flowering Peach, red, 4 to 6 ft.....	1.00	9.00
Linden, American, 8 to 10 ft.....	2.35	22.00
Linden, American, 10 to 12 ft.....	2.75	25.00
Maple, Norway, 5 to 6 ft.....	1.60	15.00
Maple, Norway, 6 to 8 ft.....	2.00	18.50
Maple, Silver, 6 to 8 ft.....	1.35	12.50
Maple, Silver, 8 to 10 ft.....	1.60	15.00
Maple, Silver, 10 to 12 ft.....	2.20	20.00
Oaks: Chestnut, Scarlet, White, Willow and Red, 6 to 8 ft.....	2.65	25.00
8 to 10 ft.....	3.65	35.00
Oxydendrum arboreum, 5 to 6 ft.....	2.75	25.00
Oxydendrum arboreum, 6 to 8 ft.....	3.25	30.00
Poplar, Boileana, 6 to 8 ft.....	1.35	12.50
Poplar, Boileana, 8 to 10 ft.....	1.65	15.00
Poplar, Lombardy, 8 to 10 ft.....	.85	7.50
Poplar, Lombardy, 10 to 12 ft.....	1.25	11.00
Prunus pissardi, 4 to 6 ft.....	1.15	10.00
Prunus pissardi, 6 to 7 ft.....	1.60	15.00
Redbud, 4 to 6 ft.....	1.00	9.00
Redbud, 6 to 8 ft.....	1.75	16.00
Redbud, 8 to 10 ft.....	2.50	23.00

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ROSE GROWERS

AMERICAN NURSERYMAN

alba in front of Linum perenne and Anchusa barrelieri was another delight."

Incidentally, the bugloss mentioned last is a really good plant that deserves far more attention than it usually receives.

Confusion in Phloxes.

I just came from a nursery where confusion was rampant among the phlox names. The owner blamed the propagator, and the propagator blamed his source of supply. I know nothing about the details, and it is of no interest to you and me anyway, but I do know that introducers are not entirely blameless. Take the case of Phlox Columbia and P. Lilian, for instance. There may be minor differences in plant growth and perhaps in their salmon-pink color, but I have never been able to detect any.

Even more confusing is the case of Daily Sketch and P. D. Williams. The nursery mentioned before is a case in point. It had several hundred plants of the same lovely pink shade, but some were half again as tall as the others, all from the same lot of stock plants bought in last year. The situation is easily explained by the fact that the two varieties are exactly the same as to color (and it is the best pink in commerce today that I know), differing only in height of plant, where Daily Sketch exceeds the other by one-half at least.

Anemone Apennina.

A Missouri reader asks if Anemone apennina would be hardy in his section and, if so, what it needs in the way of culture. The plant is not entirely hardy in the severe climate of northern Michigan, though it often lasts for years, but it should be permanent in gardens from Chicago southward and probably even north of there.

Give this lovely Italian a shady spot and the kind of soil which naturally goes with a woodland and it will, where hardy, brighten the early spring picture with large (an inch or more across), sky-blue flowers, spreading into ample patches as time goes on. It, like most of the tuberous-rooted kinds, has the disconcerting habit of dying down soon after it is through flowering, leaving bare patches in the planting if companions are not ready to fill the void. That is of less concern, however, than a similar occurrence would be in a more conspicuous place.

Star Grass.

Until last spring, when I saw hundreds of plants under a shrub hedge, I had not seen the star grass for sev-

"LOOK TO LEGHORN'S FOR YOUR QUALITY LINERS"

The following is our offering of liners for Fall or Spring delivery. Order now, so as to be assured of quality liners for your field plantings.

Taxus Cuspidata		Per 100	Per 1000	Taxus Hicksi		Per 100	Per 1000
2-yr., T		\$30.00	\$250.00	2-yr., T		\$30.00	\$250.00
3-yr., T, cutback		35.00	300.00	3-yr., T		35.00	300.00
5-yr., TT		55.00	500.00	6-yr., TTT		80.00	750.00
Taxus Cuspidata Nana		True dwarf form.		Taxus Capitata		From terminal leaders.	
3-yr., T, cutback		35.00	300.00	2-yr., T, cutting type		30.00	250.00
4-yr., TT		50.00	450.00	3-yr., T, cutting type		35.00	300.00
5-yr., TT		65.00	600.00				
6-yr., TT		85.00	750.00				
Taxus Intermedia				Taxus Mooni			
5-yr., TT		50.00	450.00	2-yr., T		30.00	250.00
7-yr., TT, 10 to 12 ins.		75.00	700.00	4-yr., TT		45.00	400.00
Taxus Hatfieldi				Thuja Nigra			
2-yr., T		30.00	250.00	2-yr., T		30.00	250.00
3-yr., T		35.00	300.00				
4-yr., TT		40.00	350.00				

We cannot fill orders for less than one hundred of a size and variety. 250 liners furnished at the thousand rate.

LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

eral years. It reminded me that here is a plant, *Hypoxis hirsuta* of botanists, worth growing in northern gardens, if for no other reason than that it is the only member of the amaryllis family (at least in North America) that has had the courage to venture so far away from its tropical and subtropical homes. It displays its fearlessness of cold by its presence on the prairies of northern Minnesota and even into Canada, and on the lightly wooded slopes of southern Maine, where it lights up the May and June landscape with an abundance of 6-pointed stars on stems two to four inches tall.

The flowers of star grass frequently continue opening until September if the plants are in favorable surroundings, as when they get plenty of moisture during that period. It is a good thing to plant under shrubs, where the shade is not too dense, along stream banks and plains in the rock garden and in other situations where late spring and summer can use bright yellow.

ANDREW J. COLNAR, operator of Maple Heights Landscape Service Co., Maple Heights, O., has added a greenhouse to his property this summer and has ten acres devoted to the growing of evergreens and flowers.

SPECIMEN		EVERGREENS		LINERS	
Arborvitae, American Pyramidal	Each	Arborvitae, Pyramidal	Per 100		
2 to 3 feet, B & B	\$2.00	6 to 8 ins.	\$16.00		
3 to 4 feet, B & B	2.50	8 to 10 ins.	22.00		
Arborvitae, Woodward Globe		Arborvitae, Woodward Globe			
12 to 15 ins., B & B	1.00	5 to 8 ins.	15.00		
15 to 18 ins., B & B	1.25	8 to 10 ins.	22.00		
18 to 24 ins., B & B	1.50				
OUR 75th YEAR					
SARCOXIE NURSERIES PEONY FIELDS					
WILD BROS. NURSERY CO.					
SARCOXIE		Send for our general list		MISSOURI	

NORTHERN-GROWN EVERGREENS

SPRUCE - JUNIPER

TAXUS - ARBORVITAE

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"True Varieties" Is Not a Boast... It's A HABIT!		PECAN TREES	
ROSEBUSHES		WALNUT, FIG	
Licensed Grower, All-America Introductions.		PERSIMMON	
Refrigeration.		Wholesale Catalog.	
ARP		GET YOURS FIELD-FRESH AND FREEZE-FREE.	
NURSERY CO.			
TYLER, TEXAS			
AVOID HEELYARD HAVOC.			

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

THE BALD CYPRESS.

Occasionally we see advertised in the American Nurseryman and in catalogs the bald cypress. We, too, have grown the tree intermittently, but it is not nearly so widely used as it might be, for it is a very satisfactory tree. The bald cypress, *Taxodium distichum*, and the pond bald cypress, *Taxodium ascendens*, grow native in this country, usually in swampy places. The former grows along the Atlantic and Gulf coasts and the Mississippi valley and has the wider range, with the Dismal Swamp in Virginia considered the northern limit, although there is a small natural grove near Salisbury, Md., about fifty miles east of our nurseries. The natural range does not indicate its possible cultural range, for that extends well into New England as well as into the drier central states.

The tree is one of our most valuable timber trees and is interesting to the botanist for its ability to send up knees by which it "breathes" when it grows in swamps. It is a deciduous conifer, with light green feathery foliage, and reaches great heights. There are trees in this neighborhood that were planted as ornamentals and are now 100 feet high.

When the tree is nursery-grown it must be treated as an upland tree, for it cannot be transplanted into a swampy place. We have tried this a number of times digging it with a ball (it transplants best that way) and with bare roots, but never with success. Apparently the only way it can be established in a swamp is by sowing the seeds there.

We have grown both species of trees, and other than being a little slow to take hold after transplanting, neither has been difficult. The common bald cypress is the more widely grown, although the pond bald cypress has the darker green foliage. Its character of growth is narrower and quite erect, and the scalelike foliage looks like hair standing on end, giving the tree a picturesque, Japanesque look. We have found its best uses to be as a shade or specimen tree on the lawn, although it would make a handsome avenue tree.

There is a third species from Mexico, known as *Taxodium mucronatum*, or the Montezuma bald cypress, that is evergreen and is hardy only

in California and with which I am not familiar. E. S. H.

NATIONAL ARBOR WAYS.

A proposal to make our future main through highways into national arbor ways has been enthusiastically advocated by Dr. Harlan P. Kelsey, well known Massachusetts nurseryman. In an interesting talk before the members of the Northern Nut Growers' Association, in convention at Beltsville, Md., in September, Dr. Kelsey presented his plan for turning our main highways into scenic, educational and recreational arbor ways.

He proposed that our main highways be so developed that, by the purchase and other acquisition of ample rights of way, planting could be done in natural groves with additional space for properly located wayside parks and camp sites.

The principal highways to be used would be the main north to south routes from Canada to Mexico. He

cited the fact that U. S. Highway 1, running from Maine to Florida, would pass through climatic plant zones 10 to 3. Other north to south highways would be used in the interior and one on the far Pacific coast. The plantings would follow the zones in sequence, and each zone would have completely representative plantings of native plants and, as an additional possibility, suitable economic and ornamental exotics.

While north to south highways would be the principal arbor ways, several east to west routes offer interesting possibilities; namely, Virginia to California, Long Island to Oregon and one in the deep south.

As a sample of the possibilities, Dr. Kelsey mentioned the present Skyline drive, in Virginia, and its extension in the form of the Blue Ridge parkway, now under construction from Virginia to North Carolina and Tennessee. All who have been over this drive will agree as to the attractiveness of the idea. The Blue Ridge parkway will pass through the richest

EVERGREENS

Northern-grown

Canadian Hemlock
American Arborvitae
Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgs.	\$0.80	\$ 5.00
3 to 6 ins., sdgs.	1.50	10.00
6 to 9 ins., sdgs.	2.50	15.00
9 to 12 ins.	6.00	40.00
12 to 18 ins.	8.00	65.00

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

WILLIAM CROSBY HORSFORD
CHARLOTTE, VERMONT

LINING-OUT STOCK SPECIAL

FALL, 1949—SPRING, 1950

Azaleas, Berberis, Boxwood (Old English), Dogwoods, Lilacs, Red Maples, Taxus, etc.

Highest quality. Discount for quantity orders. Ask for list.

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QUALITY LINERS

Hicks' Upright Yew	Per 100
9 to 12 ins., heavy tr.	\$35.00
American Holly	
8 to 12 ins., sdgs.	15.00
Red Flg. Dogwood	
10 to 15 ins., grafts.	60.00

Send for new Fall List

POSSUM HOLLOW NURSERIES

6327 Magnolia St.
PHILADELPHIA 44, PA.

SPECIAL SALE ON PACHYSANDRAS

Well rooted plants which have been outdoor-grown for one full year.

\$5.00 per 100.

\$47.50 per 1000.

\$45.00 per 1000 for over 5000.

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PONTIAC NURSERIES

ROMEO, MICHIGAN

The following list of well grown quality LINING-OUT STOCK is offered for sale for Fall, 1949, Spring, 1950, delivery:

	Per 1000		Per 1000
1000 Acer <i>Dasyarpum</i> , 8 to 12 ins., 1-yr. S.....	\$ 60.00	500 Physocarpus <i>Monogynus</i> , 8 to 12 ins., 2-yr. SWC, X.....	\$125.00
1000 Acer <i>Ginnala</i> , 8 to 12 ins., 2-yr. S.....	65.00	2000 Prunus <i>Americana</i> , 12 to 18 ins., 1-yr. S.....	40.00
1000 Almond, Pink, 8 to 12 ins., 2-yr. SWC, X.....	125.00	250 Prunus <i>Maritima</i> , 6 to 8 ins., 1-yr. S.....	40.00
2000 Celastrus <i>Scandens</i> , 4 to 6 ins., 1-yr. S.....	40.00	2500 Prunus <i>Tomentosa</i> , 4 to 8 ins., 1-yr. S.....	50.00
1000 Cornus <i>Alba Sibirica</i> , 6 to 10 ins., 2-yr. Trans. S.....	60.00	1500 Rhamnus <i>Cathartica</i> , 6 to 8 ins., 1-yr. S.....	40.00
1000 Cornus <i>Elegantissima</i> , 6 to 10 ins., 2-yr. SWC, X.....	125.00	800 Rhodotypos <i>Kerrioides</i> , 6 to 10 ins., 1-yr. S.....	80.00
1000 Cornus <i>Flava</i> , 6 to 10 ins., 2-yr. Trans. S.....	60.00	500 Rhus <i>Cotinus</i> , 4 to 6 ins., 1-yr. S.....	65.00
1000 Cornus <i>Mascula</i> , 6 to 10 ins., 1-yr. S.....	40.00	1000 Ribes <i>Alpinum</i> , 6 to 10 ins., 2-yr. SWC, X.....	125.00
3500 Cornus <i>Sanguinea</i> , 6 to 8 ins., 1-yr. S.....	40.00	2000 Rosa <i>Rubrifolia</i> , 6 to 10 ins., 2-yr. Trans. S.....	60.00
1000 Cornus <i>Sanguinea</i> , 6 to 10 ins., 2-yr. Trans. S.....	60.00	2000 Rosa <i>Rugosa</i> , Red, 2 to 4 ins., 1-yr. S.....	40.00
1000 Cornus <i>Stolonifera</i> , 6 to 10 ins., 2-yr. Trans. S.....	60.00	5000 Rosa <i>Setigera</i> , 6 to 10 ins., 1-yr. S.....	40.00
900 Cotoneaster <i>Acutifolia</i> , 2 to 4 ins., 1-yr. S.....	65.00	1500 Spiraea, <i>Anthony Waterer</i> , 6 to 8 ins., 2-yr. SWC, X.....	125.00
300 Cotoneaster <i>Divaricata</i> , 6 to 8 ins., 2-yr. SWC, X.....	125.00	1000 Spiraea <i>Arguta</i> , 8 to 10 ins., 2-yr. SWC, X.....	125.00
500 Crataegus <i>Cordata</i> , 8 to 12 ins., 2-yr. S.....	100.00	3000 Syringa <i>Pekinensis</i> , 2 to 4 ins., 1-yr. S.....	50.00
10,000 Cydonia <i>Japonica</i> , Spreading, 6 to 8 ins., 1-yr. S.....	50.00	1000 Tamarix <i>Africana</i> , 8 to 12 ins., 1-yr. S.....	50.00
3500 Cydonia <i>Japonica</i> , Upright, 6 to 10 ins., 1-yr. S.....	75.00	500 Tamarix <i>Gaillia</i> , 8 to 12 ins., 1-yr. S.....	50.00
500 Deutzia <i>Gracilis</i> , 6 to 8 ins., 2-yr. SWC.....	125.00	3500 Viburnum <i>Americanum</i> , 10 to 14 ins., 2-yr. S.....	80.00
2000 Eleagnus <i>Angustifolia</i> , 8 to 12 ins., 1-yr. S.....	40.00	2500 Viburnum <i>Dentatum</i> , 8 to 12 ins., 2-yr. S.....	100.00
1500 Euonymus <i>Alatus</i> , 4 to 8 ins., 2-yr. SWC, X.....	125.00	100 Viburnum <i>Dilatatum</i> , 6 to 10 ins., 2-yr. S.....	100.00
2000 Euonymus <i>Alatus Compacta</i> , 4 to 8 ins., 2-yr. SWC, X.....	125.00	500 Viburnum <i>Ellatatum</i> , 4 to 8 ins., 2-yr. SWC, X.....	125.00
1000 Euonymus <i>Vegetus</i> , 2 to 6 ins., 2-yr. SWC, X.....	100.00	1500 Viburnum <i>Pubescens</i> , 6 to 10 ins., 2-yr. S.....	100.00
1000 Forsythia <i>Intermedia</i> , 8 to 12 ins., 1-yr. S.....	50.00	2000 Viburnum <i>Sieboldi</i> , 4 to 6 ins., 1-yr. S.....	50.00
1000 Hydrangea, P.G., 6 to 8 ins., 2-yr. SWC.....	125.00	1000 Viburnum <i>Sieboldi</i> , 4 to 8 ins., 2-yr. SWC, X.....	125.00
175 Hypericum <i>Densiflorum</i> , 8 to 12 ins., 2-yr. SWC, X.....	125.00	1500 Weigela <i>Rosea</i> , 8 to 12 ins., 1-yr. S.....	60.00
2500 Ligustrum <i>Ibota</i> , 6 to 12 ins., 2-yr. S.....	65.00		
2000 Lonicera <i>Bella Albida</i> , 8 to 12 ins., 1-yr. S.....	50.00	TRANSPLANTED GRAFTING STOCK Per 100	
1000 Lonicera <i>Grandiflora</i> <i>Rosea</i> , 8 to 12 ins., 1-yr. S.....	50.00	3000 Juniperus <i>Virginiana</i> , 8 to 12 ins.....	\$12.00
5000 Philadelphus <i>Cor. Aurea</i> , 2 1/2-in. pots, SW, cuttings.....	125.00	6000 Juniperus <i>Virginiana</i> , 6 to 8 ins.....	10.00
		5000 Juniperus <i>Virginiana</i> , 4 to 6 ins.....	8.00

Usual terms to nurserymen with established credit. Otherwise cash with order, less 2 per cent. We urge immediate reservation on items you can use as our surplus is small and will not last long.

THE PONTIAC NURSERY COMPANY

ROMEO, MICHIGAN

botanical section in the world. Its further extension through the Georgia pine section southward to meet the Tamiami trail will complete a wonderful arbor way.

As an example of a wonderful possibility, he pointed out that the proposed new Baltimore to Washington freeway could be used as an inspirational model. (The present boulevard U. S. No. 1 is the busiest and ugliest 4-lane highway in the country.) The freeway would consist of two 20-foot paved surfaces separated by a 100-foot park strip set in rights of way as wide as 400 feet, allowing plenty of room for suitable development. The newly located freeway would traverse considerable federal land in Camp Meade, Beltsville and Greenbelt.

It is further proposed that arboreums such as the National Arboretum confine their efforts to science and research and not use their facilities as parks. The arbor ways would become the areas for floral show. Plantings could be in adequate groupings for mass effect. In addition to the plant displays and recreational areas, there could be developed projects illustrating good forestry, horticultural and fire prevention practices. The necessary ecological balance and natural wild life would be maintained.

LINERS — Fall, 1949

Rooted Evergreen Cuttings

FIELD FRAMES	Per 100	POTS	Per 100
Juniperus <i>Hetzl Glauca</i>		Taxus <i>Capitata</i>	
2000 8 to 10 ins., 3-yr.....	\$27.50	1000 6 to 8 ins., 2-yr.....	\$25.00
1000 6 to 8 ins., 3-yr.....	25.00	1000 6 to 8 ins., 3-yr.....	27.50
3500 8 to 10 ins., 2-yr.....	22.50	Taxus <i>Media Hicksi</i>	
Juniperus <i>Hor. Pl. (Andorra)</i>		2000 6 to 8 ins., 2-yr.....	25.00
4000 8 to 10 ins., 2-yr.....	20.00	1000 8 to 10 ins., 2-yr.....	27.50
Picea <i>Albertiana</i>		Juniperus <i>Chin. Pfitzeriana</i>	
400 8 to 10 ins.....	25.00	4000 6 to 8 ins., 2-yr.....	20.00
Thuja <i>Occ. Globosa</i>		Terms: NET CASH WITH ORDER.	
2000 6 to 8 ins., 3-yr.....	22.50	PACKING FREE.	
4000 6 to 8 ins., 2-yr.....	20.00	Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control.	
Thuja <i>Occ. Pyramidalis</i>		An order for 25 of the same variety and size sold at the 100 rate.	
2000 6 to 8 ins., 2-yr.....	22.50	Minimum order, 100 plants.	
		We would welcome your inspection. Location is 18 miles west of Chicago on Alternate U. S. 30.	
POTS			
Juniperus <i>Hor. Pl. (Andorra)</i>	Per 100		
4000 6 to 8 ins., 1-yr.....	\$20.00		
Taxus <i>Cuspidata</i>			
4000 6 to 8 ins., 2-yr.....	25.00		
2000 4 to 6 ins., 2-yr.....	22.50		
2000 8 to 10 ins., 3-yr.....	27.50		

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York and Roosevelt Roads, ELMHURST, ILL.

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Phone: 5686

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SMALL FRUITS

Stock listed will be ready for shipment about Oct. 15. These prices cancel all previous lists and are subject to change without notice. 250 or over at 1000 rate. Boxing at cost. All prices F.O.B. Bridgman. Usual terms.

GRAPES

	Per 100	Per 1000
Concord, 2-1	\$10.00	\$ 80.00
Concord, 1-1	8.00	60.00
Niagara, 2-1	11.00	90.00
Niagara, 1-1	9.00	70.00
Catawba, 2-1	11.00	90.00
Catawba, 1-1	9.00	70.00
Fredonia, 2-1	11.00	90.00
Fredonia, 1-1	9.00	70.00
Delaware, 2-1	14.00	120.00
Delaware, 1-1	11.00	90.00
Van Buren, 2-1	26.00	...
Van Buren, 1-1	16.00	...
Sheridan, 1-1	14.00	...

BLACKBERRIES

Eldorado, transplants	6.50	55.00
Eldorado, No. 1, f.e.	5.00	40.00
Alfred, transplants	6.50	55.00
Alfred, No. 1, f.e.	5.00	40.00
Early Harvest, No. 1, f.e.	5.00	40.00

BOYSENBERRIES and DEWBERRIES

Boysenberry (Common), No. 1 tips	5.00	40.00
Boysenberry (Thornless), No. 1 tips	5.50	45.00
Lucretia Dewberry, No. 1 tips	5.50	40.00

CURRENTS

Wildor, 3-yr. heavy	15.00	130.00
Wildor, 2-yr. No. 1	12.00	100.00
Wildor, 1-yr. No. 1	7.00	60.00
Red Lake, 2-yr. No. 1	16.00	...
Red Lake, 1-yr. No. 1	12.00	...

GOOSEBERRIES

Downing, 2-yr. No. 1	25.00	...
Houghton, 2-yr. No. 1	25.00	...
Champion, 2-yr. No. 1	25.00	...

BLUEBERRIES

	Each	Per 10	Per 100	Per 1000
Prices of Rancocas, Rubel, Jersey				
2-yr., 9 to 12 ins., bearing age...	\$9.40	\$3.50	\$32.50	\$300.00
1-yr., 12 to 18 ins., bearing age...	.55	5.00	47.50	470.00
1-yr., 18 to 24 ins., bearing age...	.25	7.00	67.50	650.00

Write for Special Quotations on Quantity Lots.

RED RASPBERRIES

	Per 100	Per 1000
Latham, transplants	\$ 7.50	\$ 62.50
Latham, 1-yr. No. 1	6.00	17.50
Chief, transplants	7.00	60.00
Chief, 1-yr. No. 1	5.50	45.00
Sunrise, transplants	7.00	60.00
Sunrise, 1-yr. No. 1	5.50	45.00
Indian Summer, transplants	8.00	70.00
Indian Summer, 1-yr. No. 1	6.50	55.00
St. Regis, transplants	7.00	60.00
St. Regis, 1-yr. No. 1	5.50	45.00

BLACK RASPBERRIES

Cumberland, trans. No. 1	8.00	70.00
Cumberland, trans. No. 2	6.50	55.00
Cumberland, tips, No. 1	4.50	35.00
Logan, trans. No. 1	8.00	70.00
Logan, trans. No. 2	6.50	55.00
Logan, tips, No. 1	4.50	35.00
Morrison, trans. No. 1	9.00	80.00
Morrison, trans. No. 2	7.50	65.00
Morrison, tips, No. 1	5.00	40.00

PURPLE RASPBERRIES

Sodus, No. 1, tips	5.50	45.00
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ASPARAGUS

Paradise and Washington		
3-yr. heavy	4.00	30.00
2-yr. No. 1	2.50	18.00
1-yr. No. 1	1.70	12.00
1-yr., in 16,000 lots		10.00

VICTORIA RHUBARB

Whole Roots		
1½-in. and up	8.00	75.00
1 to 1½-in.	5.50	50.00
¾ to 1-in.	4.00	35.00
½ to ¾-in.	3.00	25.00

RED RHUBARB

Canada Red, No. 1 divisions	40.00	350.00
McDonald, No. 1 divisions	30.00	250.00

HORSERADISH

Cuttings, 4 to 5 ins.	2.00	15.00
Whole Roots	1.50	35.00

In the west desert flora, range plants, alpine and evergreen forest could be emphasized in their respective zones.

To develop these arbor ways, new locations would have to be acquired. To purchase, widen and reconstruct present highways would be prohibitively expensive. He said the public must control the roadsides.

To implement the program Dr. Kelsey proposed that Congress create a national arbor ways commission with members from the Forest Service, National Park Service, United States Department of Agriculture, United States Bureau of Public Roads and the National Arboretum. The idea may at the present seem like a remote dream, but it has much merit, and it is to be hoped that the projects will eventually be carried out.

E. S. H.

MRS. C. L. WILLIAMS has recently started the Green Street Nursery at 310 East Green street, Gallup, N. M.

NOW known as the Nord Sprinkler System Co., Everett O. Nord & Sons have not only changed their corporate name, but are newly located at 1500 Dahlia street, Denver 7, Colo. They specialize in landscape designing and construction as well as sprinkler service.

WE OFFER THE FOLLOWING SURPLUS ITEMS FOR FALL DELIVERY

Rhododendron carolinianum, B&B, 12 to 24 ins.

Rhododendron catawbiense, B&B, 12 to 24 ins.

Tsuga canadensis, B&B, 18 ins. to 4½ ft.

CURTIS NURSERIES
CALICOON, N. Y.

ROSA MULTIFLORA

For living fence and soil conservation.

Hardy, thorny type, grown locally in our own nursery. One-year seedlings all table-graded. Available for delivery on or about November 1.

Write for Wholesale Trade List

CLOVERNOOK NURSERIES, Inc.

710 E. Fairy Chasm Rd.

Milwaukee 11, Wis.

ROBERTS NURSERY CO.

Wholesale growers of Dependable

FRUIT TREES

We solicit your list of wants.

DANVILLE, N. Y.

EVERGREEN TRANSPLANTS

FALL 1949

We will ship trees up to Oct. 15.

ALL MICHIGAN-GROWN TREES

These prices are for BED-RUN. Approximate size in inches listed. **FALL SHIPMENT ONLY.**

PICEA PUNGENS GLAUCA. Colorado Blue Spruce.

(The seeds from which these trees were grown were hand-picked from blue trees in Colorado.)

	Per 100	Per 1000
20,000 4-yr. T close (2-2) 4 to 6 inches.	\$12.00	\$ 60.00
8000 7-yr. T close (3-4) 5 to 8 inches.	16.00	80.00
8000 7-yr. TT 6x6 inches. (3-2-2) 5 to 10 inches (well branched)	24.00	120.00

PICEA EXCELSA. Norway Spruce.

3000 4-yr. T close (2-2) 6 to 10 inches. SOLD OUT	7.20	36.00
---	------	-------

THUJA OCCIDENTALIS. American Arborvitae or White Cedar.

12,000 4-yr. T close (2-2) 4 to 8 inches	8.00	40.00
--	------	-------

PINUS BANKSIANA. Jack Pine.

16,000 4-yr. T close (2-2) 10 to 18 inches	4.80	24.00
--	------	-------

PINUS MUGO (MONTANA) MUGHUS. Mugho Pine.

8000 4-yr. T close (2-2) 4 to 7 inches.	8.00	40.00
---	------	-------

PINUS RESINOSA. Red or Norway Pine.

6500 4-yr. T close (2-2) 5 to 9 inches	7.20	36.00
--	------	-------

PINUS SYLVESTRIS. Scotch Pine.

13,000 4-yr. T close (2-2) 8 to 15 inches. SOLD OUT	7.20	36.00
---	------	-------

PINUS STROBUS. White Pine

(This White Pine is grown in a sanitary nursery where Ribes have been eradicated by the U.S.D.A.)

8000 4-yr. T close (2-2) 3 to 6 inches	6.00	30.00
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EXPLANATION OF PRICE LIST: "T close" indicates close transplants. That is the result of small 2-year seedlings that have been root-pruned and transplanted close together and grown for two years. (2-2): The first number indicates the number of years in the seedbed; the second number indicates the number of years in the transplant bed.

TERMS: Cash before shipment. Prices are F.O.B. Fennville, Mich. 500 trees of one variety and size are sold at the thousand rate. We ship by express unless otherwise specified (Collect for express charges). We guarantee safe arrival at the common carrier destination.

On Highway U. S. 31 (1/4 mile south of intersection of M. 89 and U. S. 31) and 1/2 mile south and 1/2 mile west of intersection of M. 89 and U. S. 31.

WALTER A. STUDLEY NURSERY

Dept. AN.

FENNVILLE, MICHIGAN

We are a member of American and Michigan Associations of Nurserymen. State Nursery License No. 437. Certificate Nursery Insp. No. 1003.

COVER ILLUSTRATION.

Spiraea Nipponica Rotundifolia.

While species of spiraea are numerous, too few of them are known and appreciated as they should be, probably because overplanting of *Spiraea vanhouttei* by a previous generation brought snobbish neglect of anything of the name. *S. vanhouttei* is still a beautiful shrub, easy to grow and producing generous bloom, though overdone in some localities and too frequently neglected by homeowners to maintain its full return of bloom. Other species can be used to vary the picture, and nurserymen who extended their present meager list would doubtless be pleasantly surprised by the results.

Spiraea nipponica, often called *S. bracteata*, was described by E. H. Wilson as "the best of the June-flowering spiraeas that Japan has given us." Growing eight feet high, its ascending, spreading branches form a somewhat vase-shaped bush.

QUALITY MERCHANDISE AT REASONABLE PRICES

C. L. VANDERBROOK & SON

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

NURSERY STOCK

A good supply available in

Peach Trees
Willow, Babylon and Wisconsin
Pinus Mugo
Taxus cuspidata, Intermedia and hicksl
Barberis thunbergi.
2-yr. seedlings, certified.
Raspberries, Indian Summer, Marey
and Taylor
Asparagus, Paradise, 2-yr.
SHRUBS—ROSES—PEONIES
—PERENNIALS.

If you have not received our current wholesale list, write us.

BROWN BROTHERS CO.

Brighton Station Rochester 10, N. Y.

ORNAMENTAL EVERGREENS

Trees & Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

HEMLOCKS

Specimen stock transplanted 4 and 5 times. Sheared and open styles. In large truckload lots. Select them yourselves. 3 to 6 1/2-ft. sizes. We grow the finest. Write for full particulars. Liberal discounts on quantity orders.

Also, a few Ball Carriers in stock.

SUNNYVIEW NURSERIES

George Colmorgen, Prop.

Rt. 84, Lake Co. PERRY, OHIO

WE OFFER FOR FALL, 1949, AND SPRING, 1950

LINING-OUT STOCK

<i>Azalea Calendulacea.</i>	Per	Per
Flame Azalea.	100	1000
<i>Azalea Bakeri.</i> Red to Crimson.	\$4.00	\$30.00
6 to 12 ins.	5.00	35.00
12 to 18 ins.		
<i>Acer Saccharum.</i> Hard Maple.		
6 to 12 ins.	1.00	7.50
12 to 18 ins.	1.50	9.00
<i>Betula Nigra.</i> River Birch.		
6 to 12 ins.	1.50	9.00
12 to 18 ins.	2.00	12.50
<i>Comptonia Asplenifolia.</i>		
Sweet Fern.		
6 to 12 ins.	3.00	25.00
12 to 18 ins.	4.00	35.00
<i>Carpinus Caroliniana.</i>		
Hornbeam.		
6 to 12 ins.	1.25	10.00
12 to 18 ins.	1.50	12.50
<i>Cercis Canadensis.</i> Redbud.		
6 to 12 ins.	2.00	15.00
12 to 18 ins.	2.50	20.00
<i>Cornus Florida.</i> Dogwood.		
6 to 12 ins.	2.00	15.00
12 to 18 ins.	3.00	20.00
<i>Fagus Americana.</i> Am. Beech.		
6 to 12 ins.	1.00	8.00
12 to 18 ins.	1.50	12.50
<i>Fraxinus Americana.</i>		
White Ash.		
6 to 12 ins.	1.00	8.00
12 to 18 ins.	1.50	10.00
<i>Liriodendron Tulipifera.</i>		
Tulip Tree.		
6 to 12 ins.	1.25	10.00
12 to 18 ins.	1.75	15.00
<i>Magnolia Acuminata.</i>		
Cucumber Tree.		
4 to 6 ins.	2.00	17.50
6 to 12 ins.	3.00	25.00
<i>Tilia Americana.</i>		
American Linden.		
6 to 12 ins.	1.50	15.00
12 to 18 ins.	2.50	20.00

Prices are F.O.B. McMinnville, Tenn. Packing will be charged at cost. Terms same as in our 1949 price list. All stock offered subject to prior sale. No charge for packing if cash is sent with order.

O. H. PERRY NURSERY CO., Box 545, Telephone: 375-X, McMinnville, Tenn.

VINES

<i>Clematis Virginiana.</i>	Per	Per
Virgin's-bower.	100	1000
12 to 18 ins.	\$4.00	\$35.00
18 to 24 ins., heavy.	6.00	50.00
<i>Celastrus Scandens.</i>		
Am. Bittersweet.		
6 to 12 ins.	2.50	20.00
12 to 18 ins.	3.00	25.00
<i>Lonicera Halliana.</i>		
Hall's Honeysuckle.		
6 to 12 ins.	1.00	7.00
12 to 18 ins.	1.50	9.00
<i>Vine Minor.</i>		
Common Myrtle Vine.		
Medium liners	1.00	6.00
Heavy liners	1.50	9.00

NATIVE EVERGREENS

<i>Ilex Opaca.</i> Am. Holly.		
3 to 6 ins.	1.50	12.00
6 to 9 ins.	2.00	15.00
<i>Juniperus Virginiana.</i>		
Red Cedar.		
3 to 6 ins.	1.25	10.00
6 to 9 ins.	1.75	15.00
<i>Kalmia Latifolia.</i>		
Mountain Laurel.		
3 to 6 ins.	2.00	15.00
6 to 9 ins.	2.50	20.00
<i>Pinus Echinata.</i>		
Shortleaf Pine.		
6 to 12 ins.	1.25	9.00
12 to 18 ins.	2.00	12.50
<i>Rhododendron Maximum.</i>		
Rosebay Rhododendron.		
3 to 6 ins.	2.50	20.00
6 to 9 ins.	3.50	25.00
<i>Tsuga Canadensis.</i> Hemlock.		
3 to 6 ins.	1.25	10.00
6 to 9 ins.	2.00	15.00

UNDERSTOCK

<i>Cornus Florida.</i> White-fl.		
Dogwood, 1-yr., field-grown	6.00	50.00
<i>Carpinus Caroliniana.</i> Am.		
Hornbeam, 2-yr., seedlings	5.00	40.00
<i>Juniperus Virginiana.</i> Red		
Cedar, 1-yr., field-grown	5.00	40.00
<i>Juniperus Virginiana.</i>		
Red Cedar, seedlings	4.00	30.00

HEAVY TREES and SHRUBS

<i>Buddleia, Ile de France.</i>	Per	Per
2 to 3 ft., well br.	10	100
<i>Buddleia Magnifica.</i>	\$2.50	\$15.00
2 to 3 ft., well br.	2.00	12.00
<i>Cydonia Japonica Rubra.</i>		
True Upright Red.		
12 to 18 ins.	2.00	12.00
<i>Deutzia, Pride of Rochester.</i>		
2 to 3 ft., well br.	1.00	7.50
<i>Forsythia Fortunei.</i>		
Fortune Forsythia.		
2 to 3 ft., well br.	1.50	10.00
<i>Ligustrum Amurense.</i>		
North Privet.		
2 to 3 ft., 4 canes and up.	1.00	6.00
<i>Ligustrum Ixolium.</i>		
Ixolium Privet.		
2 to 3 ft., 4 canes and up.	1.00	6.00
<i>Ligustrum Ovalifolium.</i>		
California Privet.		
2 to 3 ft., 4 canes and up.	1.00	6.00
<i>Spiraea Callosa Rosa.</i> Pink.		
2 to 3 ft., well br.	1.00	5.00
<i>Spiraea Prunifolia.</i>		
Bridal Wreath.		
2 to 3 ft., well br.	3.00	20.00
<i>Spiraea Thunbergi.</i>		
Thunberg Spiraea.		
12 to 18 ins.	1.50	10.00
<i>Spiraea Vanhouttei.</i>		
Van Houtte Spiraea.		
2 to 3 ft., well br.	2.00	15.00
<i>Symphoricarpos Vulgaris.</i>		
2 to 3 ft., well br.	1.50	10.00
<i>Weigela Lutea.</i> Yellow Flower.		
12 to 18 ins., well br.	1.00	6.00
<i>Weigela Rosa.</i> Pink.		
2 to 3 ft., well br.	1.50	10.00
<i>Weigela.</i> Variegated.		
Pink Flowers.		
18 to 24 ins., well br.	2.00	15.00
<i>Acer Dasyacarpum.</i>		
Silver Maple.		
5 to 6 ft., br.	7.50	45.00
<i>Cercis Canadensis.</i> Redbud.		
5 to 6 ft., well br.	7.50	50.00
<i>Cornus Florida.</i>		
White-fl. Dogwood.		
5 to 6 ft., well br.	8.00	60.00
<i>Liriodendron Tulipifera.</i>		
Tulip Tree.		
5 to 6 ft., well br.	6.00	50.00

though the stiffness of its branches produces a less uniformly flowing cascade of white bloom than *S. vanhouttei* or some other species.

S. nipponica rotundifolia has larger leaves and flowers than the type. The smooth, dark green, persistent leaves are somewhat bluish-green beneath. The small, dense, rounded umbels of pure white flowers thicken the ends of the branches in June, appearing about a week later than those of *S. vanhouttei*. Besides its foliage, the ability to withstand dry conditions recommends this shrub. Propagation is by cuttings.

Schizophragma or Hydrangea?

As stated in the comments accompanying the cover illustration in the issue of September 1, *Schizophragma hydrangeoides* is frequently confused with *Hydrangea petiolaris*. Peter J. Van Melle, Poughkeepsie, N. Y., writes that the cover illustration of that issue "shows plainly a fringe of outer sterile flowers in the flower clusters, each consisting of four enlarged sepals. This is characteristic of *Hydrangea petiolaris*. In contrast with it, the true *Schizophragma hydrangeoides* produces, along the outside of its flower clusters, sterile florets consisting, each, of a single en-

APPLE AND PEAR SEEDLINGS

Our seedlings have been thoroughly sprayed and are free from aphids and disease.

We are centrally located, and our shipping facilities are unsurpassed. Stock will reach you promptly for early grafting.

TWO-YEAR APPLE TREES

ONE-YEAR PEACH, CHERRY, PLUM and APRICOT.

All Grades.

Write for special low prices.

L. R. TAYLOR & SONS

Topeka, Kan.

Phone 35009 or 35019

ACER PLATANOIDES • NORWAY MAPLES

	Per 100
6 to 8 ft., $\frac{5}{8}$ to 1 -in. cal.	\$ 60.00
8 to 10 ft., 1 to $1\frac{1}{4}$ -in. cal.	75.00
9 to 11 ft., $1\frac{1}{4}$ to $1\frac{3}{4}$ -in. cal.	150.00
10 to 12 ft., $1\frac{3}{4}$ to 2 -in. cal.	200.00
11 to 13 ft., $1\frac{3}{4}$ to 2 -in. cal.	225.00
2 to 2 $\frac{1}{4}$ -in. cal.	\$3.00 each.

All these trees are well branched with fine fibrous roots and have been twice transplanted.

Additional charge of 10 per cent will be added for balling. No charge for loading trucks here at the nursery.

When C.O.D. shipment is desired, a cash deposit of 25 per cent must accompany order.

STATE ROAD NURSERY

State and Sprout Rds. Media, Pa.
Route 1

KOSTER NURSERY

Division of Seabrook Farms

Wholesale Nurserymen

BRIDGETON, N. J.

Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

SCARFF'S Nursery



Headquarters for BERRY PLANTS and ORNAMENTALS

— NEW — VALENTINE ALL-RED RHUBARB

Sugar-sweet for culinary use and freezing. Stalks and pith red throughout and remain red the entire summer.

— Complete Trade List on Request —

ORNAMENTAL SHRUBS

Buddleia, 2 to 3 ft.
Forsythia spect., 3, 4 and 5 ft.
Hamamelis vernalis, 3, 4 and 5 ft.
Prunus tomentosum, 2 and 3 ft.
Spiraea V.H., heavy, 3 and 4 ft.

LIVING CHRISTMAS TREES

NORWAY SPRUCE,
4 to 7 ft.,
well grown, good color. Drive over to our nursery, or write for prices. Will sell any quantity or entire blocks.



Send Your Want List for Lowest Prices.

W. N. SCARFF'S SONS New Carlisle, Ohio

larged sepal, borne on a stalk nearly or actually as long as the blade of the sepal. All this produces a pattern quite clearly different from that of *H. petiolaris*."

In his recent book, "Shrubs and Vines for American Gardens," Dr. Donald Wyman, of the Arnold Arboretum, suggests, as a means of telling the two plants apart, "the leaves of the hydrangea are lustrous above and the leaf margin is regularly serrate, while the leaves of *schizophragma* are not lustrous and they are markedly coarsely dentate."

Those readers who maintain a scrapbook of the cover illustrations and comments may wish to append these distinguishing comments.

ROBERT WEISKOPF has sold the Kinsman Landscape Co., 1735 Everglades Concourse, Miami Beach, Fla., and is going into the nursery business in the vicinity of New York city, residing now at 735 Crescent, Mamaroneck, N. Y.

DALLAS D. DUPRE, JR., has resigned the position of chief landscape architect for the Ohio department of highways to resume private practice, at Columbus, O., after fourteen years with the department. William J. Garmhausen succeeds him.

GUARANTEED LINING-OUT STOCK—FALL, 1949

	Per 1000
Banks Pine, 3-yr. transplants (2-1), 5 to 10 ins.	\$30.00
Mugho Pine, 4-yr. transplants (2-2), 4 to 8 ins.	50.00
Scotch Pine, 3-yr. transplants (2-1), 4 to 8 ins.	45.00
Black Hill Spruce, 5-yr. transplants (3-2), 4 to 8 ins.	60.00
Norway Spruce, 3-yr. transplants (2-1), 3 to 5 ins.	35.00
Norway Spruce, 4-yr. transplants (2-2), 4 to 8 ins.	65.00
White Spruce, 3-yr. transplants (2-1), 3 to 6 ins.	40.00
White Spruce, 4-yr. transplants (2-2), 4 to 10 ins.	50.00

Terms: Cash with order, or 50% with order and balance C.O.D.

OUR GUARANTEE

Ninety per cent of all transplants sold at regular wholesale prices, as quoted in this list, are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1950.

Several other varieties available. Send for complete list of stock.

WESTERN MAINE FOREST NURSERY CO., DEPT. AN-109 Fryeburg, Maine

J & P EVERGREENS SHADE TREES

In good assortment.

SHRUBS, VINES HEDGE PLANTS, etc.

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

KOREAN PINE (Nut Pine)

For PARKS and ESTATES
1 to 5 feet

ELFGREN NURSERIES
East Killingly, Connecticut

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

Coming Events

MEETING CALENDAR.

October 30 to November 1, American Horticultural Council, Inc., Essex House, New York.

November 6 and 7, Florida State Nurserymen's Association trade meet, Orange Court hotel, Orlando.

January 4 to 6, A. A. N. Eastern Regional Meeting, Hotel Statler, New York, N. Y.

HORTICULTURAL COUNCIL.

The American Horticultural Council will sponsor a meeting, October 30 to November 1, at Essex House, 160 Central Park South, New York, at which representatives of single plant societies have been invited to be present for a conference. This will take place on the opening day, when there will also be held a conference of the directors of garden centers.

Meetings of committees and commissions will take place in the afternoon, when reports will be prepared for presentation at the final session, Tuesday morning, November 1.

Monday, October 31, will be devoted to a general meeting, at which there will be speakers interested in horticulture from various points of view. At the banquet in the evening Louis Bromfield will speak and John Nash Ott, Jr., will present time-lapse pictures of plant growth.

After the final session Tuesday morning, a bus trip will be taken in the afternoon to the New York Botanical Garden and other gardening developments at New York city.

The arrangements and reception committee, formed of members of the Men's Garden Club of New York, is under the chairmanship of Dr. Albert J. Irving, 1 East Fifty-seventh street, New York 22, N. Y.

TEXAS ROSE FESTIVAL.

For three days, September 30 to October 2, Tyler will hold its twelfth annual Texas rose festival, celebrating its most famous industry, rose growing. Since its beginning in 1933, the Texas rose festival has been an increasingly popular spectacle, attracting thousands of visitors.

One of the highlights of the festival is the coronation of the Texas rose festival queen, a 2-year American beauty appropriately named Rose Marie Young. In addition to the queen, two Tyler beauties are chosen as duchesses, representing the rose industry and the Tyler garden clubs. Six other local belles serve as ladies

in waiting to the queen. This year, forty-six girls from six states other than Texas, twenty-seven Texas cities and Mexico will form the queen's court and take their places in the rich pageantry of the festival's coronation ceremony.

From a field supply of approximately 40,000,000 rosebushes, several hundred thousand cut flowers will be massed for exhibition. A leading Texas architect designed the setting of the show in order to display the roses to best effect.

The show is produced through the cooperation of more than 350 commercial rose growers under the supervision of the Texas Rose Research Foundation. The exhibition will be held in a newly completed L-shaped building at downtown Tyler.

Two categories of display are planned. One will be the arrangements sponsored by the Texas Rose Research Foundation, and the other will be individual flower arrangements entered by member organizations of the East Texas Council of Garden Clubs.

The Texas Rose Research Founda-

tion arrangements will be subdivided into the rose fantasy show and the rose specimen show. This year, as in years past, hundreds of thousands of cut flowers will be arranged into forms such as fans, fountains, wheels, etc., to carry out the rose fantasy theme. Perfect examples of standard and patented roses will be displayed in the rose specimen show.

Members of the Texas Rose Research Foundation are as follows (firms are at Tyler unless otherwise noted): Arp Nursery Co.; Atwood Rose Nursery; L. A. Brady & Son; Breedlove Nurseries, M. L. Brooks, Winona; H. W. Florence; J. L. Fortner & Son; Goldwater Nursery; B. L. Ginn; Earl Ginn; Harville Rose Service; W. G. Hester; E. V. Kimbrew, Myrtle Springs; P. E. Mackey & Son; Moore Nursery & Floral Co.; Thomas W. Murrey, Wills Point; W. W. McGinney; North Tyler Nursery; Reliance Rose Nursery; J. D. Roach, Lindale; Rosemont Nurseries; Carl Shamburger Nursery; Paul Shamburger Nursery; Southland Rose Nursery; P. O. Tate; Vermay Nursery; J. A. Walters; J. E. Whiteside Nursery; Sam Whiteside; Zorn & Sons; J. J. Shira; M. L. Balch; G. T. Ravencraft; McGinney Rose Nursery, and Miller Nursery.

LOVELL PEACH PITS 1949 CROP

	Per bu.
1 to 5 bu.	\$3.25
5 to 25 bu.	3.10
25 to 100 bu.	3.00
100 bu. and up.	2.75

Pits in our warehouse, F.O.B. McMinnville, Tenn., ready for quick shipment. Terms, cash. Write, wire, phone. Quality excellent.

TENNESSEE NURSERY CO.
Cleveland, Tenn.

A. B. C. "Supreme" Quality SEEDS — PLANTS — BULBS and Growers' Accessories

Write for our latest prices.

AMERICAN BULB CO.
1335 W. Randolph St. CHICAGO 7
31 W. 27th St. NEW YORK 1

RHUBARB

Chipman's Valentine
Chipman's Canada Red by the carload or less. Write for new prices.

BASS NURSERY
CHADRON, NEB.

PEACH PITS

California Lovell Seeds
also

Apricot and Myrobalan Seeds
1949 crop

By ton or car.

Write for prices.

GRAY NURSERIES

P.O. Box 498 Elverta, Calif.

We Offer a Complete List of HARDY TREE SEEDS

Write for a list of
varieties and prices.

YOKOHAMA NURSERY CO., Inc.

1337 W. Randolph St.
CHICAGO 7, ILL.

SEEDS

Collectors of Tree, Shrub and
Wild Flower Seeds
Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

HOLLAND BULBS — ORDER NOW

IMMEDIATE DELIVERY OUT OF DETROIT STOCK.

Tulips packed 100 or 250 of a variety per bag at the 1000 rate.

DARWIN TULIPS

	Prices per 1000
	12 cm. 11 to and up 12 cm.
All Bright, bright red.....	\$30.00
Bartigon Max., cochineal-red.....	30.00
Campfire, blood-red.....	30.00
City of Haarlem, large, deep red.....	\$50.00
Clara Butt, salmon-pink.....	40.00
Cordell Hull, red and white.....	30.00
Eclipse, large, chestnut-red.....	50.00
Giant, large, purple-violet.....	40.00
Glacier, extra large, ivory-white.....	65.00
Golden Age, golden-yellow.....	47.50
Goliath.....	65.00
Mr. Van Zyl, soft, rose-pink.....	55.00
Niphetos, soft, sulphur-yellow.....	37.50
Philip Snowden, carmine-rose.....	37.50
Pride of Haarlem, carmine-rose.....	37.50
Pride of Zwanenberg, old rose.....	40.00
Princess Elizabeth, lilac-rose.....	47.50
Prunus, salmon-pink.....	40.00
Queen of the Night, deep maroon.....	40.00
Red Pitt, bright red.....	40.00
Rose Copland, lilac-rose.....	30.00
Scotch Lassie, deep lavender.....	30.00
The Bishop, purple-violet.....	40.00
William Copland, lavender.....	30.00
William Pitt, bright red.....	37.50
Yellow Giant, Golden-yellow.....	37.50
Zwanenberg, pure white.....	50.00
Rainbow Mixture.....	40.00

COTTAGE TULIPS

	Prices per 1000
	12 cm. 11 to and up 12 cm.
Advance, scarlet-cerise.....	\$37.50
Albino, pure white.....	40.00
Carrara, pure white.....	40.00
Golden Harvest, pure yellow.....	\$40.00
Mrs. J. T. Scheepers, golden.....	47.50
Northern Queen, white and pink.....	40.00
White City, pure white.....	40.00
Grenadier, bright orange-red.....	50.00

TRUMPET TULIPS

Bandong, mahogany-red.....	40.00
Denbola, deep red, cream edge.....	50.00
Elmus, red, edged white.....	47.50
Rheinland, crimson-edged yellow.....	40.00
Telescopium, violet-rose.....	47.50

SINGLE EARLY TULIPS

Couleur Cardinal, deep scarlet.....	50.00
Keizerskroon, red, yellow edge.....	40.00

DOUBLE EARLY TULIPS

Bonanza, red and yellow.....	
Marchal Niel, yellow.....	16 to 11 cm.
Electra, wine-red.....	
Orange Nassau, orange-scarlet.....	8 3.50 per 100
Peach Blossom, deep pink.....	30.00 per 1000
Schoonoord, pure white.....	
Rainbow Mixture.....	

BOTANICAL (SPECIES) TULIPS

TOP SIZE	Per 100
Fosteriana "Red Emperor", large, early scarlet.....	\$6.50
Kaufmanniana, Water Lily Tulip, yellow and red.....	5.00
Praedians Fusilier, orange, multi-flowered tulip.....	5.50

DOUBLE LATE TULIPS

TOP SIZE	Per 100
Coxa, carmine, tipped white.....	\$5.00
Eros, old rose.....	5.00
Mt. Tacoma, large, pure white.....	6.50
Orange Superba, orange.....	8.50
Symphonia, bright red.....	6.50

RAINBOW MIXTURE

Holland-grown Bulbs, 10 to 11 cm.

A good size for outdoor planting, or for counter sales. This mixture will contain Single Early Tulips in a well balanced assortment of colors.

8 3.00 per 100
25.00 per 1000

NARCISSI

	Prices per 100
	D.N. D.N. No. 1 No. 2
Aerolite (Trumpet), yellow, excellent for pots.....	\$8.50 \$4.50
Carlton (Incomp.), sulphur-yellow, frilled cup.....	7.50 1.00
Cheerfulness (Poetazi), double white.....	6.00 3.50
Glory of Sassenheim (Trumpet), yellow and white.....	6.50 1.50
Hellas (Incomp.), yellow, orange cup.....	3.50
Inglescombe (Double), full, clear golden-yellow.....	8.50 1.50
King Alfred (Trumpet), golden-yellow.....	8.50 5.00
Lady Moore (Baril), white perianth, yellow cup.....	7.00 3.50
Laurens Koster (Poetazi), white, yellow cup.....	3.50
L'Innocence (Poetazi), white perianth, yellow cup.....	6.50 3.50
Rembrandt (Trumpet), yellow, large flower.....	9.00

	Prices per 100
	D.N. D.N. No. 1 No. 2
Spring Glory (Trumpet), white perianth, yellow cup.....	8 8.50
Triandrus Thaila, outstanding variety, white.....	11.00
Naturalizing Mixture—Trumpet varieties only.....	\$4.00
Short cup varieties only.....	3.00
All types, mixed.....	3.50

LILIAM REGALE

American-grown

	Per 100	Per case
1 to 5-in., 750 per case.....	8 6.00	\$37.50
5 to 6-in., 500 per case.....	7.00	30.00
6 to 7-in., 250 per case.....	9.00	20.00
7 to 8-in., 250 per case.....	11.00	25.00
8 to 9-in., 200 per case.....	14.00	25.00
9 to 10-in., 150 per case.....	17.00	24.00

TERMS: 2% 10 days, 30 days net to firms with established credit. Cash with order earns 3% discount. Subject to prior sale. F.O.B. Detroit.

LILIAM CANDIDUM

French-grown

	Per 100	Per 100
16 to 18 cm.....	\$8.50	20 to 22 cm..... \$12.00
18 to 20 cm.....	9.50	22 to 24 cm..... 18.00

PAPER WHITE NARCISSI

	Per 100	Per 100
12 to 14 cm.....	\$4.00	14 to 15 cm..... \$5.00

PEONIES

Strong 3 to 5-eye divisions

\$3.00 per 10, \$25.00 per 100, \$225.00 per 1000.	
Duchesse d'Orleans, Queen Victoria, White Pink, Reine des Fleurs, Edulis Superba, Cherry	

BLEEDING HEARTS

Dielytra spectabilis, True old-fashioned type.			
	Per 10	Per 100	Per 1000
3 to 5 eyes.....	\$3.50	\$30.00	\$250.00
5 to 8 eyes.....	4.50	40.00	350.00

P. O. Box 35, Brightmoor Station
DETROIT 23, MICH.
Telephone: LIVONIA 3331

GROWERS EXCHANGE, Inc.

Dr. Eldon W. Lyle, plant pathologist of the foundation, is in charge of coordinating the activities of both categories of displays.

Beginning September 30 and continuing throughout the rose festival, caravans of cars will tour the rose fields. Free transportation will be provided for these tours.

Other events which have been scheduled for the festival include a free open-air fiesta night, featuring Glen Gray and his nationally famous Casa Loma orchestra and a troupe of entertainers, a football game between Tyler Junior College and Los Angeles College, several teas, two dances, distinguished guests' luncheons and a rose vesper service, which will close the festival Sunday afternoon, October 1.

PLAN ILLINOIS PROGRAM.

Victor de St. Aubin, vice-president of the Illinois State Nurserymen's Association, was host to the officers and directors at their meeting Sep-

CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye strong divisions, and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Fall, Winter and Spring months.

VARIETIES:

	Per 100	Per 1000
Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal and Wyoming.....	\$6.00	\$50.00
King Humbart, President, Copper Giant, Louis Cayeux and Yellow King Humbert.....	7.00	60.00

Blooming during September; we invite your inspection.

Free packing for cash with order.

LARGEST GROWERS OF CANNAS IN THE COUNTRY.

BUNTINGS' NURSERIES, Inc.

BOX 3

SELBYVILLE, DEL.

QUALITY

DUTCH AND NATIVE-GROWN BULBS

Write for Wholesale Price List

NEAL BULB CO., 15-18 Ellis Ave. FAIR LAWN, N. J.

PEONIES

Young healthy plants.
Standard 3 to 5-eye divisions.
Ready for immediate shipment.

	Per 10	Per 100	Per 1000
Alexandre Dumas (7.1), pink	\$3.00	\$25.00	\$200.00
Baroness Schroeder (9.0), flesh-white	4.50	40.00	....
Duchess d'Orleans (6.1), deep pink	3.00	25.00	200.00
Edulis Superba (7.6), cerise	3.50	30.00	250.00
Festiva Maxima (9.3), white	4.00	35.00	....
Floral Treasure (7.5), clear pink	3.00	25.00	200.00
L'Esperance, bright pink	3.00	25.00	200.00
Mme. de Verneville (7.9), white	4.00	35.00	300.00
Mme. Calot (8.1), flesh-pink	3.00	25.00	..
Mons. Jules Elie (9.2), rose-pink ..	3.00	45.00	....
Unnamed, double pink	2.70	22.00	175.00

Packing at cost except no packing
charge for cash with order.

WILLIS NURSERY CO.
OTTAWA, KAN.

PEONY ROOTS

Send for quantity prices on 3 to 5-
eye divisions of White, Pink and
Red.

HEMLOCK

Well sheared Canadian Hemlock
2 1/2 to 3 ft., at \$3.00 each, B&B for
Spring.

LITTLEFORD NURSERIES
VINCENNES, IND.

PEONIES

Strong divisions, fresh dug when
weather permits.

Thousand lots, 10 per cent less.

	Per 100
Felix Crousse, cherry-red.....	\$40.00
Mons. Jules Elie, pink.....	35.00
Mons. Martin Cahuzac, darkest red	40.00
Baroness Schroeder, white.....	40.00
Karl Rosenfield, crimson.....	40.00

TERMS: Cash with your order, please.
PAYNE DAHLIA FARMS
Route 5, Kansas City 3, Kansas

LEUCOTHOE CATESBAEI

A good broad-leaved evergreen that grows in dense
shade; lily of the valley like flowers, reddish-bronze
follage in winter. Contrasts well with azaleas and
rhododendrons. Fine for flower arrangements. 2 to 3
ins., s. 5c; 3 to 6 ins., l. 7 1/2c; 6 to 8 ins., t., 10c.

BOXWOOD

English Box, 2 to 3 ins., 7 1/2c; 3 to 4 ins., 10c;
4 to 6 ins., 25c. American Box, 3 to 4 ins., 7 1/2c;
4 to 6 ins., 10c; 6 to 8 ins., 15c; 8 to 10 ins., 25c.
Japanese Box, 6 to 8 ins., 7 1/2c. Send for list of other
choice plants.

ALANWOLD NURSERY
NESHAMINY, BUCKS CO., PA.

TREE PEONIES

EXOTIC - RARE - HARDY

All top varieties, most sensational.
Selected seeds available.

Complete catalog now ready.

L. SMIRNOW

6 Hartley Rd. Great Neck, L. I., N. Y.

The **CHRYSANTHEMUM**
CATALOG you cannot afford
to be without.

WONDERLAND NURSERIES
Ellersong, Va.

tember 15, held at the offices of
Eugene A. de St. Aubin & Bro., Inc.,
at Addison. Eugene A. de St. Aubin
was on hand to welcome the visitors,
as was Victor, Jr. The bright autumn
day was ideal for the tour of the
nurseries in the afternoon. The sixty-
five acres have what may be called
a youthful appearance, for there are
no trees and shrubs of the large sizes
slow to sell. In their place are long
rows of flowering shrubs for land-
scape use and shade trees of small
sizes. More fruit trees are to be seen
than in the usual landscape firm's
nursery, but the semirural residents
of the northwestern suburbs of Chi-
cago call for these. Evergreens are in
larger variety and quantity than in the
past, from liners up to moderate-size
plants, the landscape trade taking
them as fast as they reach salable size.
The past month's rains have produced
good growth, and in character of stock
and cleanliness of cultivation the nurs-
ery looked its best.

At the meeting in the morning
the chief topic of discussion was the
program for the annual convention
of the association, to be held at the
Hotel La Salle, Chicago, January 17
to 19. As usual, outstanding speakers
will appear on the programs each
afternoon of the three days. Sales of
exhibit space for nursery equipment
and supplies were reported by Secre-
tary Miles W. Bryant, and the
twenty-three spaces were expected to
be taken quickly.

The secretary reported that a 33-
page mimeographed booklet, contain-
ing suggested changes in and additions
to a selective list of ornamental woody
plants for Illinois, would shortly go to
members. The first list, dated Janu-
ary 1, 1948, had been compiled
by a committee of Illinois nursery-
men and members of the staff at the
University of Illinois. Members
recommended numerous additions,
which are noted in the revised list.

To evaluate the crab apples at the
University of Illinois a committee, con-
sisting of A. H. Hill, of the D. Hill
Nursery Co., Dundee, Ill., and John
Nordine, propagator at the Morten
Arboretum, Lisle, Ill., has been ap-
pointed.

J. E. Duffield, of the Employers'
Association of Illinois, frequently a
guest at these meetings, was con-
gratulated on the approach of his
golden wedding anniversary, October
18, which he will celebrate with mem-
bers of his family at the residence of
one of his sons in Connecticut.

A 16-ACRE evergreen nursery was
started recently by William E. Hawes,
Jr., 3111 Bellevue avenue, Cheverly,
Hyattsville, Md.

PEONIES

For Early Fall Planting

Peonies are a specialty with us, and
we are digging now from an unusually
good block of 3-year-olds.

Write for our Price List. We are offer-
ing close to 200 varieties, including a
wide assortment of choice garden types,
as well as the best of the cut flower
varieties.

Wholesale growers of a general
assortment of ornamentals for
the best landscape plantings.

BRYANT'S NURSERIES
PRINCETON, ILL.

ROSA MULTIFLORA

Hardy, Northern-grown

Write for quotations

LOWTHER TREE FARMS
R. R. 2 BARRINGTON, ILL.

FOR 51 YEARS

Our business has been
growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

BOBBINK & ATKINS
E. RUTHERFORD, N. J.

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers

HOLLAND, MICH.

DICTAMNUS

America's finest hardy perennial.

	Per 100
Fraxinella, pink	\$22.00
2-yr. field transplants	22.00
Fraxinella, white	22.00
2-yr. field transplants	22.00
Fraxinella, white	42.00
4-yr. landscape blooming	42.00

Cash with order, please.

LUCKHARD'S NURSERIES SEBOWING, MICH.

AMERICA'S BEST SOURCE
FOR

HARDY PLANTS

WRITE FOR
TRADE LIST

MENTOR,
OHIO

Wayside

Gardens

Selling Out JAPANESE YEW

12,000 6-yr.-old, 3 times transplanted, 12 to 18 ins., **Upright Brevifolia**, **Hicks**, **Spreading** and **Berrybush**.

B&B or bare root.

30,000 3-yr.-old, from nursery row, 8 to 12 ins., **Upright Brevifolia**, **Hicks**, **Spreading** and **Intermedia**.

Root trimmed and heeled in.
Ready for spring planting.

Make us an offer on the lot.

No Boxing or Shipping.

O. B. MORRELL'S

Sugar Hollow Danbury, Conn.

NORWAY SPRUCE

Twice Transplanted

	Each
2 to 3 ft.	\$2.00
3 to 4 ft.	2.50

B&B or in new 1/2-bushel baskets for live Christmas trees.

ANDERSEN'S EVERGREEN NURSERY
SCOTTSVILLE, MICH.

LINING-OUT STOCK

Ready now.

Pfitzer Juniper	Per 100
Rooted cuttings	\$12.00
Transplanted, 6 to 8 ins.	18.00
Transplanted, X, 8 to 10 ins.	28.00
Transplanted, XX, 10 to 12 ins.	35.00
Field-grown, 12 to 15 ins.	50.00

Abelia Edward Goucher.
Pink Abelia.

Rooted cuttings, good tops,
4 to 6 ins. 14.00

WARE BROTHERS' NURSERY

P.O. Box 469 Houston, Miss.

BURTON'S

HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.
Write!
RARE ITEMS YOU DO NOT
FIND IN MOST LISTS!

HILLTOP NURSERIES
CASHTOWN, OHIO

WRITE FOR NEW FALL LIST

With wide variety of Evergreens,
Lining-out stock, Container stock and
Balled & Burlapped stock.

VERHALEN NURSERY CO.
SCOTTSVILLE, TEXAS

OBITUARY

B. M. Gaddis.

B. M. Gaddis, 58, Falls Church, Va., leader of the division of domestic quarantines of the United States Department of Agriculture's bureau of entomology and plant quarantine, died August 25 at Arlington County hospital of a cerebral hemorrhage.

Mr. Gaddis was born on a farm near Suches, Ga., in 1891, and he was graduated from the South Georgia State Agricultural College, Douglas. From 1916 to 1921 he was in charge of an experiment station of the Georgia state board of entomology.

He first entered federal agricultural work in 1929. In the fall of 1934 he was appointed leader of the division of domestic plant quarantines, the position he held when he died. Through his efforts reorganization and broad improvements were brought about in plant quarantine procedures in both the federal and state governments.

Surviving are his widow, Claudelle; four sons, a daughter and three brothers, one of whom, Carl H. Gaddis, Lafayette, La., is also in the employ of the U. S. D. A.

Charlia Bennett Thornhill.

Charlia Bennett Thornhill, Beaumont, Tex., died at a local hospital August 26.

Mr. Thornhill was born at Creston, Ia., June 30, 1876. He went to east Texas in 1918 as manager of the Griffing Bros. Nurseries, at Kountze, Tex. Later he was transferred to Grand Bay, Ala., as manager for the Griffing nurseries at that place. There he met Margaret Staples, whom he married. With his wife and daughter, Sarah Rose, he went to Beaumont to manage the Griffing nurseries at Rosedale, where he had been employed as field superintendent since 1926.

He is survived by his widow and his daughter, Sarah Rose Nash, Orange, Tex.

George J. Ball.

George J. Ball, founder of the seed business bearing his name, died September 10 at his home, at Glen Ellyn, Ill., at the age of 75. Early on an airplane tour of the globe last July, he was stricken with a coronary attack at Hawaii and returned home.

Early following a florists' career, Mr. Ball first won prominence for strains of sweet peas and calendulas obtained by plant selection. Subsequently the greenhouses at West Chicago were devoted to seed production

EVERGREEN LINERS

1 3/4-inch plant bands, \$15.00
per 100; 300 or more, as-
sorted, \$13.50 per 100.

Bare root plants, \$11.00 per
100; 300 or more, \$10.00
per 100.

25 at 100 rate.

Sizes: Yews, 4 to 6 ins.; other
varieties, 5 to 8 ins.

Pfitzer Juniper

Savin Juniper

Sargent Juniper

Andorra Juniper

Spiny Greek Juniper

Canadensis Juniper

Spreading Jap. Yew
(cuspidata)

Upright Jap. Yew
(capitata)

Bigleaf Wintercreeper
(Euonymus radicans
vegetus)

McININCH GREENHOUSES
ST. JOSEPH, MO.

EVERGREENS

Seedlings and Transplants

Fall, 1949

Write for price list.

SUNCREST EVERGREEN NURSERIES
JOHNSTOWN, PA.



Wholesale growers of the best
Ornamental Evergreens,
Deciduous Trees
Shrubs and Roses
Write for our current trade list.

THE KALLAY BROTHERS CO.
Painesville, Ohio

EVERGREENS

Hardy, northern, collected stock.
Canadian Hemlock
American Arborvitae
Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgls.	\$0.80	\$ 5.00
3 to 6 ins., sdgls.	1.50	10.00
6 to 9 ins., sdgls.	2.50	15.00
9 to 12 ins.	6.00	40.00
12 to 18 ins.	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss.

Cash, please.

R. M. COLE

Box 37 CHARLOTTE, VT.



LILACS

On own roots.
Large plants, 5 ft. and up.
Charles X, William Robinson,
Pres. Grey, Leon Gambetta, etc.

To plant this fall
AMERICAN ARBORVITAE, 10 ft.
An assortment of heavy stock
for landscaping.

SAMUEL FRASER NURSERY, Geneseo, N. Y.

LINING-OUT STOCK

If you have not received a copy of our Fall, 1949, price list and are interested, send for same.

THOMAS B. MEEHAN CO., Inc.
Dresher, Pa.

POTTED LINERS

GRAFTS

(Beetle Certified)

HEASLEY'S NURSERIES
Freeport Rd. BUTLER, PA.

SPECIAL

100,000 fine transplants
of all the leading Evergreens
For Fall delivery, or later.
Write for our special list.

ESHAM'S NURSERY
FRANKFORD, DEL.

and plant trials, and the seed business attained sizable proportions. He had been president of the Society of American Florists.

He is survived by his widow, a daughter and four sons—George K., Victor G., Carl and Robert—as well as a brother, Frank, associated in the seed business since 1927. Trained in horticulture, the sons have shouldered much of the responsibility of the business in recent years.

Ellsworth Brown.

Ellsworth Brown, who conducted a nursery at Seabrook, N. H., died August 31 at the age of 85. He had formerly been editor and publisher of the Seabrook Chronicle and a representative to the general court. He was born at Seabrook in 1865. Survivors include a niece and three nephews.

NEW LEADER FOR U. S. D. A. QUARANTINE DIVISION.

Roy G. Richmond, United States Department of Agriculture biologist, was appointed leader of the bureau of entomology and plant quarantine's division of domestic plant quarantines to succeed B. M. Gaddis, whose death is reported in the obituary column of this issue. Mr. Richmond had served as Mr. Gaddis' first assistant since 1938.

The division acts for the bureau in various plant pest control activities. Included among these are control and prevention of spread of the white-fringed beetle, control of phony and mosaic diseases of peach and eradication of citrus canker. The division also carries on the inspection in transit of plants and plant products moving interstate which are regulated by federal domestic plant quarantines in an effort to prevent the distribution and spread of dangerous and destructive agricultural plant pests.

Mr. Richmond, who lives at 902 North Fillmore street, Arlington, Va., has been employed by the bureau since 1938. He was born October 4, 1894, at Perth, Ont., Canada. Mr. Richmond holds a bachelor of science degree from the Ontario Agricultural College (1923) and a master of science degree from Colorado State College (1928). He was appointed deputy state entomologist of Colorado in 1924 and state entomologist of Colorado in 1936. During that time he was chairman of the plant quarantine committee of the Western Plant Board. He was elected chairman of the board in 1937. He became a naturalized citizen on January 8, 1932.

NORTHERN-GROWN LINING-OUT STOCK

	Per 100	Per 1000
<i>Betula papyrifera</i>		
1 to 2 ft.	\$6.00	\$50.00
2 to 3 ft.	8.00	70.00
<i>Clethra alnifolia</i>		
6 to 18 ins.	5.00	45.00
<i>Ilex verticillata</i>		
1 to 2 ft.	5.00	40.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	6.00	50.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	6.00	50.00
<i>Viburnum lentago</i>		
1 to 2 ft.	6.00	50.00

EVERGREENS

<i>Thuja occidentalis</i>		
5 to 12 ins.	5.00	40.00
<i>Tsuga canadensis</i>		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	5.00	40.00

The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS
P.O. Box 352 Exeter, New Hampshire

We Offer—

EVERGREENS — In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PFITZER JUNIPER and YEWs in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

THE WESTMINSTER NURSERIES
Westminster, Md.

TAXUS BREVIFOLIA

Finished stock. Come and see it. In lots of 25 to 100. For cash.

	Each
15 to 18 ins., B&B.	\$3.50
18 to 24 ins., B&B.	4.50

No shipping. Send your truck.

HUEBNER'S NURSERY
MONROE, N. Y.

Route 17 Orange County

LINERS

Ask for list.

BROUWER'S NURSERIES
Box 25 NEW LONDON, CONN.

Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List
W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.



PRINCETON NURSERIES
Headquarters for Quality Ornamental Stock
Send us your want list.
PRINCETON NURSERIES
Princeton, New Jersey
Phone: Princeton 1776

NORTHERN STOCK

Fall shipment, Cash with order.
500 at 1000 rate.

TRANSPLANTS		Per 100	Per 1000
Scotch Pine, 4-yr., 8 to 15 ins., heavy	8	8.00	\$75.00
Red Cedar, 6 to 8 ins., under 2/16-in. caliper	6.00	50.00	
Juniperus Communis, 4-yr., 8 to 10 ins.	10.00	---	
SEEDLINGS			
Norway Spruce, 2-yr., 2 to 4 ins.	3.00	25.00	
Norway Spruce, 3-yr., 4 to 8 ins.	4.00	35.00	
Colorado Blue Spruce, 2-yr., 2 to 4 ins.	3.00	25.00	
Colorado Blue Spruce, 3-yr., 4 to 8 ins.	4.00	35.00	
Black Hills Spruce, 2-yr., 2 to 3 ins.	3.00	25.00	
American Arborvitae, 2-yr., 2 to 4 ins.	3.00	25.00	
American Arborvitae, 3-yr., 4 to 8 ins.	3.50	30.00	
Pinus Montana Mugo, 2-yr., 2 to 4 ins.	3.00	25.00	
Pine, Scotch, 2-yr., 3 to 6 ins.	3.00	25.00	
Pine, Austrian, 2-yr., 3 to 4 ins.	3.00	25.00	
Pine, White, 2-yr., 2 to 4 ins.	3.00	25.00	
Red Cedar, Flat-top River, 1-yr., 2 ins. and up	2.50	20.00	
Juniperus Communis, 2-yr., 4 to 6 ins.	1.00	---	

Satisfaction guaranteed

J. R. PALMER & SON, Blackduck, Minn.

LAKE'S**SHENANDOAH NURSERIES**

Shenandoah, Iowa.

Wholesale growers of
a fine assortment of

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

**SPRUCE NURSERY
CLOSING OUT**

Colorado, White and Norway
Spruce.

Some specimen stock.

Much windbreak and screen stock.

Christmas trees in season.

All stock must be moved.

Former Patton nursery at Shepherd.

Write:

DUANE CHAMBERLIN
OVID, MICH.

CHINESE CHESTNUT TREES

Blight-resistant.

TREES—TRANSPLANTS—LINERS**THE GOLD CHESTNUT NURSERY**

Cowan, W. Va.

Over 100 Years' Nursery Experience

ILGENFRITZ NURSERIES, Inc.

The Monroe Nurseries
Monroe, Mich.

Get the Best

Buy Ilgenfritz

AUTUMN PLANTING.

While the public needs to be sold on the practice of autumn planting, nurserymen have explored the possibilities of doing more fall planting of liners, not to mention transplanting, in order to avoid some of the rush in spring. Not infrequently the task of digging stock to fill orders during the spring selling season delays the planting of liners until hot weather is approaching or already present. The disadvantages of that delay are well known. How much fall planting can relieve the spring congestion is well worth investigation.

Thomas S. Pinney, of the Evergreen Nursery Co., Sturgeon Bay, Wis., gives the following advice to customers buying seedling evergreens:

"There is considerable misinformation and controversy on the matter of fall planting. However, we have made the following observation over a period of years.

"All spruce and pine varieties are very successfully planted early in the fall, especially during September. This is important. Arborvitae, juniper and taxus varieties are best planted in October, and deciduous items, of course, after they have lost their foliage and have become dormant. Fall-planted small liners should be well watered before freeze-up if natural rainfall is lacking. After freeze-up, and not before, cover lightly with straw, marsh hay, Sudan grass or other coarse covering. This is an insurance against heaving, should you encounter an open winter with thawing and freezing. We do know that on the average all our fall plantings, when properly done, have better survival and have made far better growth the first year than spring-planted trees, and the job is out of the way during the spring rush. We are doing the major part of our own transplanting now in the fall."

JOHN W. KELLY WEDS.

John W. Kelly, secretary-treasurer of Kelly Bros. Nurseries, Inc., Dansville, N. Y., was married August 27 to Miss Elizabeth M. Burke, daughter of Dr. John H. Burke and the late Mrs. Burke, at St. Patrick's church, Elmira, N. Y.

His brother, William F. Kelly, Jr., was best man. One of the ushers was Henry P. Hall, nurseryman, Forty Fort, Pa.

The couple has just returned from a honeymoon in Bermuda, and they are now at home at 11 Seward street, Dansville, N. Y.

COLORADO BLUE SPRUCE

Highest Quality Liners and Finished Trees
See price list in classified section.

WANT LIST FOR SPRING, 1950

500 to 1000 of each, from 1 or 2-year beds or transplants to landscaping sizes:

Azalea Kaempferi
Azalea Mollis, Louise Hunnewell
Cornus Florida Alba
Cornus Florida Rubra
Euonymus Fortunei Coloratus
Euonymus Fortunei Vegetus
Ilex Crenata Convexa
Juniperus Chinensis Sargentii
Juniperus Horizontalis Plumosa
Kalmia Latifolia, Dexter Strain
Pieris Floribunda
Pieris Japonica
Rhododendron Carolinianum
Rhododendron Carolinianum Album
Rhododendron Catawbiense
Rhododendron Catawbiense Album
Rhododendron Roseum Elegans,
Mrs. Charles Sargent
Taxus Cuspidata
Taxus Cuspidata Capitata
Taxus Cuspidata Intermedia
Taxus Cuspidata Nana
Taxus Media Hatfieldi
Taxus Media Hicksi
Thuja Occidentalis Nigra
Thuja Occidentalis Woodwardi
Tsuga Canadensis Compacta

Send wholesale price list with your order for Colorado Blue Spruce. We try to buy from our customers.

H. W. WEBER

16 SUMMER ST. WESTON 93, MASS.

HEMLOCK and BOXWOOD

Quality Plants. New low prices.

Canadian Hemlock.	Per 100
3 to 4 ft., B&B	\$2.50
4 to 5 ft., B&B	3.25
5 to 6 ft., B&B	4.00

Old English Boxwood.	
18 to 20 ins. high, x 11 to 12-in. spread, B&B	2.50
24 ins. high, x 12 to 14-in. spread, B&B	3.25
26 ins. high, x 16-in. spread, B&B	5.00
26 ins. high, x 18-in. spread, B&B	6.00

Thousands of Nendinas, Pfizers, Hollies, Japanese Magnolias, Osmanthus, Azaleas, Sugar Maples, etc. Write for prices on large quantities.

BOXWOOD NURSERIES

Mocksville, N. C.

30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.
Viburnum Rhytidophyllum.

HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

Wholesale Growers of
General Nursery Stock

Specializing in

ELAEAGNUS ANGUSTIFOLIA

THE FRANK MILLER JR. NURSERY

ROUTE 1 PHONE 15F23 MANHATTAN, KAN.



CALIFORNIA ASSOCIATION OF NURSEYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

SAN FERNANDO NOMINEES.

Election and installation of officers will be held this month by the San Fernando valley chapter of the California Association of Nurserymen. Nominations of officers were made at the August meeting, held at North Hollywood.

Nominees are Ed Schneider, North Hollywood, for president; Frank Smythe, Sun Valley, and Jim Harris, Palmdale, for vice-president, and Mrs. Jean Powell, Van Nuys, for secretary-treasurer.

LOS ANGELES CHAPTER.

Steady growth of the Los Angeles chapter of the California Association of Nurserymen for a number of years has necessitated the formation of new chapters from time to time, until recently it was decided to divide the main chapter in two. The west Los Angeles group will be known as the Sunset chapter, and the group to the east will be known as the Los Angeles chapter.

At a meeting held September 7, the following officers were elected: President, F. C. Tomlinson, Select Nurseries, Whittier; vice-president, William H. Brown, Brown Nurseries, Alhambra; secretary, R. E. Weidner, Buena Park Greenhouses, Buena Park, and treasurer, Lynn Mossholder, Mossholder Nursery, El Monte.

Lewis Lederer, publicity and advertising agent, gave an excellent talk on advertising and led a vigorous discussion. Because of the time consumed by the elections, little further business of interest was discussed.

R. E. Weidner, Sec'y.

SAN JOAQUIN VALLEY CHAPTER MEETS.

At the meeting of the San Joaquin Valley chapter of the California Association of Nurserymen, September 8 at the Club Joaquin, Merced, the nominating committee presented the slate for the chapter offices as follows: President, Wilbur Wilhelm; vice-president, Virgil Cripe; secretary, Ivan Stribling; director, Willis Stribling, and alternate director, Cliff Oliver.

President Cliff Oliver announced

that the election will be held at the next meeting, when nominations from the floor will be in order.

The agenda for the directors' meeting at the annual convention was presented by Willis Stribling, director. A discussion of each item on the agenda followed, but no changes were made.

Mr. Wilhelm moved that the next meeting be held at Magnuson's restaurant, south of Fresno, where a smorgasbord dinner will be served.

Guests were introduced as follows: Mr. and Mrs. Jack Schneider, Orchard Nursery, Lafayette; Mr. and Mrs. Jack Du Bois, Star Nursery, Turlock; Miss Genevieve Berry,

Holland-Grown Nursery Stock

Shrubs and Trees,
including liners.

Rhododendrons and Azaleas
Hardy Perennials
Peonies

NOVELTIES IN ALL LINES
Ask for wholesale catalog.

F. J. Grootendorst & Sons
BOSKOOP, HOLLAND

Growers and exporters since 1903

WILLIAM VAN HERREWEGHE

(formerly W. E. & R. Van Herreweghe)

Export Nurseries

SERSKAMP, near GHENT, BELGIUM

FRUIT TREE STOCKS

EAST MALLING TYPES

ORNAMENTAL SHRUBS

FOREST PLANTS and Seedlings

ROSES and EVERGREENS

Prices on application.

VUYK VAN NES

BOSKOOP HOLLAND

Originators of Azalea Vuyklana.
Growers of choice Nursery Stock.

Please direct your correspondence to:

140 CEDAR STREET NEW YORK 6, N. Y.

"BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight:
20 LARGE 4-bu. BAGS (2 color).....\$29.00
30 MEDIUM 2-bu. BAGS (2 color).... 24.00
10 Large Standard Bales, each..... 4.00

Ask for delivered carload prices on:

STANDARD BALES — EXTRA BALES — JUMBO BALES

HALF MOON MFG. & TRADING CO., Inc.
90 West Street New York 6, N. Y.

AMERICAN NURSERYMAN

Stribling Nurseries, Merced, and Howard L. Riggs, Riggs' Camellia Gardens & Nursery, Madera. Mr. Riggs filed an application for membership, which the board approved, and he was accepted as a regular member.

After the business meeting adjourned, everyone was invited to remain and enjoy a Standard Oil motion picture, "Mysteries of Plant Life." Virgil E. Cripe, Sec'y.

SHIFTS IN CALIFORNIA AGRICULTURE DEPARTMENT.

The California state department of agriculture has announced that W. C. Jacobsen, assistant to the state director of agriculture and chief of the division of plant industry, has resigned the latter position to assume full-time duties as assistant to the director. To fill the vacancy for the position of chief of the division of plant industry, the department announced the appointment of Charles

TRY DANISH NURSERY STOCK

High-quality seedlings, carefully packed, shipped direct from Copenhagen to U. S. A. or Canadian Eastern ports. 10 to 14 days "on route".

Ask for our prices C.I.F. U. S. or Canadian ports and list of stock available for Spring shipments.

HJORTSOE'S PLANTESKOLE
SVEBOELLE DENMARK

Growers since 1896

Representative in the U. S. A.:

John K. Maus

16 Rose Lane, Philadelphia 18, Pa.

Telephone: Whitemarsh 8-3490

EAST MALLING FRUIT TREE STOCKS

East Malling, I, II, IV, VII and IX.

Quince type A, B and C.

Myrobalan B.

Fruit trees on Malling stocks.

ENGLISH VARIETIES OF
GOOSEBERRIES

MANTEN'S NURSERY
WHITE ROCK, B. C., CANADA

Maurice C. Ravensberg Boskoop, Holland

Reliable firm for general Nursery Stock and Belgian plants.
Catalog on application.



SEMMEs, ALABAMA

Azaleas, Camellias, Gardenias
and a General Line of
Ornamental Nursery Stock
Lining-Out Stock Our Specialty
WHOLESALE ONLY

Beautiful NATIVE RED CEDARS

5 to 10 ins.	\$20.00 per 1000
10 to 15 ins.	35.00 per 1000
15 to 24 ins.	\$ 7.50 per 100
2 to 3 ft.	12.50 per 100
3 to 4 ft.	17.50 per 100

Will start shipping about Oct. 1. Will not be able to supply demand again this season. First come, first served. Write for our new, very low prices on nursery stock. Big reductions.

ROLLERS NURSERY

Phone: 661

Rogers, Ark.

IN THE CENTER OF THE SOUTH

THE **Southern** Est. 1872
Nursery & Landscape Co., Inc.
WINCHESTER, TENNESSEE

We can save you money on your
needs for fall delivery.

Phone-Write-Wire for Quotations

HEAVY 2-YR. SHRUBS FRUIT TREES

SPECIMEN EVERGREENS

LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798

Oklahoma City 1, Okla.



SEMMEs
NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens.

Wholesale Catalog SEMMEs, ALA.

V. Dick, who was for several years departmental administrative assistant in charge of the Los Angeles office.

John B. Steinweden, Sacramento, economic entomologist, has been appointed to fill the vacancy at Los Angeles. Mr. Dick, former Santa Cruz county agricultural commissioner, will have headquarters at the department of agriculture, State Office building No. 1, at Sacramento. Mr. and Mrs. Steinweden will move to Los Angeles shortly.

CALIFORNIA CONVENTION.

[Continued from page 8.]

ments. The garden accessory business rightly belongs to the nurseryman, Mr. Reese believes, but to get it and keep it, he will have to do a better job of merchandising.

One reason nurserymen have lost this business has been their failure to provide attractive, well designed salesrooms. They are the exception, not the rule, said Mr. Reese. Equipment and floor plans have been designed to display and sell merchandise of all kinds, and the nurserymen could profit by using them. Display merchandise where the customer can see it and touch it. "Show it, and sell it; hide it, and keep it." "What the eye cannot see, the heart does not long for," were two sayings quoted by Mr. Reese to bear out his belief.

Better merchandising also includes the right attitude toward the customer. He is the most important factor in your business, said Mr. Reese. Any good businessman should realize that he is dependent on the customer and not vice versa. The customer is not an interruption of one's work; he is the purpose of it.

Nursery Advertising.

A service which has been developed to supply members of the California Association of Nurserymen with newspaper advertising mats at a low cost was explained by Paul R. Jordon, general manager, Nurseries Advertising Service, Inc., Los Angeles, whose firm is offering these mats under the sponsorship of the association. Now designed are 176 different advertisements with illustrations and general copy in mat form, which the local newspaper completes by inserting the nurseryman's individual items, prices and signature. These come in 1, 2 and 3-column widths and in 6-inch and 10½-inch lengths. Subjects covered are roses, azaleas, camellias, bulbs, fruit trees, berry plants, citrus trees, subtropicals, ornamentals, landscape service, garden tools and gifts.

In his talk on "Nursery Advertising

PLANTS AND LINERS

LONICERA JAPONICA HALLIANA

	Per 100	Per 1000
2-yr., t. No. 1	\$7.50	\$60.00
1-yr., t. No. 1	5.00	40.00
1-yr., heavy liners	1.25	10.00

SPIRAEA VANHOUTTEI

12 to 18 ins., hedge	3.50	30.00
18 to 24 ins., hedge	5.00	40.00

JUNIPERUS VIRGINIANA

Nursery-grown transplants,		
Selected grafting size	6.00	50.00
4 to 8 ins., liners	2.50	20.00

CORNUS FLORIDA

Selected grafting size	5.00	40.00
12 to 18 ins., liners	3.50	30.00

Write for our new Fall catalog.

McMINNVILLE TREE CO.

BOX 125

McMINNVILLE, TENN.

Northern-grown Stock

Send
for
Price
List.

J. V. BAILEY NURSERIES

St. Paul 6, Minn.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.

ONARGA, ILL.

ALPINE CURRANTS

(Rooted Cuttings)

Also Prunus Americana seedlings,
Prunus Americana seeds and Shade
tree seeds.

Write for prices.

NEWLAND'S NURSERY
LAKE CITY MINNESOTA

EVERGREENS SHRUBS SHADE TREES POPLARS

Write for surplus list.

THE HENRY NURSERIES

Ingels Bros.

Henry, Ill.

IN CARLOTS

American Elm, 1 1/4 to 2-in.

Thurlo Willow, 5 to 6 ft.,
up to 2-in.

Apple, 2 and 3-yr., up to 1-in.

Cherry, 1-yr., up to 11/16-in.

Peach, up to 1-in.

Pear and Plum, up to 11/16-in.

Shrubs, Shade Trees, Peonies and
Evergreens.

C. M. HOBBS & SONS, Inc.
BRIDGEPORT, IND.

NOW OFFERING A COMPLETE LINE OF SMALL FRUIT PLANTS

We will be glad to quote
on your requirements.

**ANDREWS NURSERY
CO.**
FARIBAULT, MINN.

SUNRISE RASPBERRY PLANTS

No. 1, 3/16-in. and up
\$35.00 per 1000

About 8000 must be dug and
shipped by October 20. Clean, 2-yr.-
old plants. Need room for transplant
beds.

J. R. PALMER & SON
Blackduck, Minn.

GRAPEVINES

Heavy, well rooted

2-yr. Concord and Niagara
Hydrangea P.G.
Peach

Write for prices.

Thorne Brewster

WILLOWBEND NURSERY
Davis Rd. Perry, Ohio

GRAPE CUTTINGS

New low prices per 1000.
Concord, \$3.75; Niagara, \$4.00
Delaware, \$4.50; White Elvira, \$4.50
Wire-bound, 100 per bunch, expertly cut. Packing
free. Start cutting December 1.

Place orders at once, large or small.
PAW PAW PLANT CO.
PAW PAW, MICH.

ing," Mr. Jordon discussed six basic questions about retail nursery sales-yard advertising. First, nurseries should advertise to outsell their competitors, to relieve inventory and to increase acceptance of the idea of yard planting by the general public. The time to advertise is when the public is most likely to buy. Of the various advertising media, outdoor advertising, radio, television, magazine and newspaper, Mr. Jordon believes newspaper advertising proves most advantageous to the retailer. What to advertise are the items that the greatest number of consumers are in a position to buy. Expenditures on advertising by retail businesses range from less than one per cent to thirty per cent, and Mr. Jordon had determined that five to ten per cent was a suitable figure for the retail nursery. In deciding how much to spend on advertising, one should first decide whether the objective is to hold sales, to increase sales and, if so by how much, or to expand the business, but do not set the goal too high. The final question of what kind of ads to run, Mr. Jordon answered with the A, B, C of copywriting. "Be apt, be brief, be clear."

To conclude the afternoon session, Vice-president Syd Whitehorn reported on the board of directors' meeting Monday. He announced that a membership campaign was to start October 1, and that for new members fifty per cent of the member's dues would be returned to his local chapter. The decals of the association's insignia have been revamped, and the cuts and descriptive material in the association's new planting booklet may be used by members in their catalogs.

Recreation and Tours.

Wednesday's program was completely given over to recreation, some engaging in the golf tournament at the Montecito County Club in the morning, some in the bowling tournament in the afternoon, others in a baseball game between the north and south and still others in fishing.

Two busloads and several carloads of persons enjoyed a tour of the gardens of four Santa Barbara estates, especially arranged by the local plans and planting committee and conducted by Miss Pearl Chase. At Westholm, owned by Mr. and Mrs. Charles G. Raymond, were many examples of espalier trees along the brick walls. The large numbers of strelitzias and the huge specimens of Hibiscus Agnes Gaulte were admired. At Gaywood, owned by Mrs. Oakleigh Thorne, honorary vice-president of the Garden Club of America, was

For Fall and Spring

We offer for Fall and Spring shipment at bargain prices the following stock:

25,000 2, 3 and 4-year Apple in leading varieties.

500 Moorpark Apricot, 1, 1 1/4, 1 1/2-in.
30,000 Amur River North Privet, 2 and 3-year.

300 each: Sweet Gum, Chinese Elm, American Ash, Weeping Willow, Soft Maple, American Elm, 2, 2 1/2, 3, 3 1/2 and 4-in. caliper.

We also have a general assortment of Shrubs in 2 to 3, 3 to 4 and 4 to 5-ft. Send us your want list. Write for special prices on truck or carlots.

WANTED: 4 to 5 and 5 to 6-ft. grafted Junipers; Upright Yew in 4 and 5-ft. sizes; 10,000 lining-out Upright Yew, 10 to 12, 12 to 15 and 15 to 18 ins.

EGYPTIAN NURSERY & LANDSCAPE CO.
FARINA, ILL.

CHERRY TREES

One-year-old, well branched.

MONTMORENCY.

For complete list write

EDWARD BACON & SON

Growers of Fruit Trees
Since 1882.

DANSVILLE 1, NEW YORK

SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

GOLDEN MUSCAT

also

Currants and Berry plants

FOSTER NURSERY CO., Inc.
FREDONIA, N. Y.

FRUIT TREES

**HARRISON BROTHERS
NURSERIES**

G. Halo Harrison, General Manager
BERLIN, MARYLAND

LARGE FRUIT TREES

Fine selection of better varieties from 4 to 12 years old, mostly bearing age. Widely spaced individual specimens. Ask for "A" price list.

OAK PARK NURSERIES
Leslie H. MacRobbie, Owner
E. Patchogue L. I., N. Y.

HEADQUARTERS FOR FINE FRUIT TREES

Large Quantities of

APPLE - PEACH - CHERRY

And other Fruit Trees

A good assortment of

GRAPES - BERRY PLANTS

FLOWERING TREES -

SHADE TREES - Etc.

We guarantee our stock to please you. Your want lists appreciated. Please ask to be put on our mailing list.

OZARK NURSERY CO.
TAHLEQUAH, OKLA.

WESTHAUSER NURSERIES

Specializing in
Strawberries and All Cane Plants

Full Line of Nursery Stock

Let Us Quote on Your Want List.

WESTHAUSER NURSERIES
SAWYER, MICH.

WE OFFER FOR FALL, 1949

OUR USUAL SUPPLY OF NURSERY STOCK

Apple	Peach	Pear
Plum	Cherry	Apricot
Figs	Grapes	Pecans

June Bud Peach
Japanese Persimmon
Ornamental and Shade Trees

Send us your want list;
write for prices.

Page 56 in A. A. N. Badge Book.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

RASPBERRY PLANTS

RED - BLACK - PURPLE

C. H. BENEDICT
GRAND JUNCTION, MICH.

SMALL FRUIT PLANTS

Evergreens - Shrubs
Asparagus - Rhubarb
Send for Complete Trade List.

W. N. SCARFF'S SONS
NEW CARLISLE, O.

a most unusual garden of rigid geometric design both as to shape of the beds and of the plants, with ivy trained in pyramids and hedges pruned in buttress effect.

At Las Tejas, owned by Mrs. Frederick W. Ledbetter, were seen the many gardens designed by Mrs. Thorne, who originally owned the estate. There was a Spanish garden, using stone, water and green plants, with the tiles and pottery providing the only color. An Italian garden included several fine pieces of statuary. The Japanese garden was greatly admired. Helix, or baby's tears, was used for ground cover throughout. In season azaleas provided color. The huge formal vista garden contained many plants in tree or standard form, including roses, geraniums, pelargoniums, heliotropes and begonias. Ivy climbing on a net or wire frame was used for many of the hedges.

At Rose Hill, owned by Mr. and Mrs. J. D. Perry Francis, were seen a large collection of rosebushes and tuberous begonias. Here the group stopped for refreshments, served by Mrs. Bert Kallman, chairman of the ladies' committee. Jack Evans, Evans & Reeves, Los Angeles, commented on some of the plants observed on the tour.

Treasurer's Report.

The meeting was resumed Thursday morning with the report of Treasurer Charles Armstrong, Sacramento, which showed the year's total receipts to be \$35,098.83 and disbursements, \$31,919.43, leaving a surplus of \$3,179.40, which now gives the association \$14,785.76 in the bank.

D. R. Tolman, of the Occidental Life Insurance Co., Santa Barbara, spoke on "Business Trends and How to Do Your Own Predicting." Illustrating his remarks with charts he has drawn, he showed that since 1800 depressions have occurred in approximate 20-year cycles in the United States and that the boom and inflationary periods after each war had taken about thirteen years to level down to normal. In 1948 prices began to level off, but Mr. Tolman believes that the cost of living will never go down to what we considered normal, since there is four times as much money in circulation now as before the war.

A selection of color slides of the first international flower show, held last spring at the Hollywood Park Turf Club, were shown by William G. Brunk, press photographer for the Los Angeles Examiner, through the courtesy of Germain's. The slides depicted the entire show, and among



**MALONEY BROS.
NURSERY CO., INC.**
Danville, New York

Our 65th Year

One of the largest producers in New York State of Hardy Upland-grown, Inspected for True-ness-to-name Fruit Trees, offers a complete assortment of

1 and 2-yr. Apple-Plum

**1 and 2-yr. Std.
and Dwarf Pear**

**1 and 2-yr. Sweet and Sour
Cherry-Quince**

1-yr. Peach

Also a good assortment of

Shrubs, Shade Trees, Evergreens.

Write for Wholesale Trade List.

WE OFFER . . .

Our General Line of

SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

STRAWBERRY PLANTS

All leading varieties.

Grown under irrigation.

We are now booking orders for the 1949-50 season.

Will ship direct to your customers if desired.

Prices on request.

MULLINS PLANT FARMS

410 Brookfield Ave.
CHATTANOOGA 4, TENN.
Phone: 2-9955

EAST MALLING IX

Dwarf Fruit Stock

	Per 100	Per 1000
Budding size	\$18.00	\$150.00

VAN HOF NURSERIES
BRISTOL FERRY ROAD
PORTSMOUTH, R. I.

TWO-YEAR, FIELD-GROWN ROSES

Budded on thornless multiflora. For immediate or later delivery.

	Per 10	Per 100	Per 1000
No. 1	\$3.50	\$33.00	\$275.00
No. 1 1/2	3.00	25.00	200.00
No. 2	2.50	20.00	150.00

250 at 1000 rate. Packing free. 5 per cent discount when all cash received by October 15. After then, 3 per cent.

Red Radiance	Peter's Briarcliff	Golden Salmon, poly.
Etoile de Hollande	Cynthia	Ideal, poly.
E. G. Hill	Caledonia	Ellen Poulsen, poly.
Rouge Mallerin	Cl. Caledonia	Geo. Elger, poly.
Poinsettia	K. A. Viktoria	Paul's Scarlet
Nellie Perkins	Luxemburg	Cl. du Pont
Talisman	Lady Hillingdon	Cl. Talisman
Pres. Hoover	Golden Charm	Cl. Etoile de Hollande
Editor McFarland	Golden Ophelia	Cecile Brunner, poly.
Pink Radiance	Sunburst	

We grow our roses and are in a position to give prompt service on rush orders.

QUALITY, PRICE and SERVICE. Ask anyone we serve.

ROSE LAWN NURSERIES, Winnsboro, Tex.

ROSES

WHOLESALE ONLY

2-year, field-grown

Four Generations Growing America's Finest Roses.

CARL SHAMBURGER NURSERY

TYLER, TEXAS

CERTIFIED BLUEBERRY PLANTS

1-year Rooted Cuttings, 2 and 3-year Nursery Plants,
All Varieties.

Propagated from stock taken from our own productive farms.

Guaranteed True to Name.

SEND for RIGHT WHOLESALE PRICES.

GALLETTA BROTHERS'
BLUEBERRY FARMS
HAMMONTON, NEW JERSEY

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royer

High Point, N. C.

ROSES

2-year, field-grown.

Send for our list today. Highest quality at lowest prices.

OZARKS PLANT FARMS, INC.
Seminole Dr. Springfield, Mo.

the nursery exhibits shown were those of Evans & Reeves, Coolidge Rare Plant Gardens, Armstrong Nurseries, Germain's, Rosedale's Monrovia Nurseries, Toluca Lake Nursery, Valley Garden Supply, Roy F. Wilcox & Co., West Adams Nurseries, Winsell-Gibbs seed store and Superior Nurseries.

Final Session.

At the afternoon session James Perry reported for the bylaws committee, outlining changes upon which the membership will vote next year. These changes will allow associate memberships to out-of-state nurseries and will discontinue membership to those whose dues are not paid by April 30.

Weather forecasts and how nurserymen might use them were explained in a talk by Richard Kale, Bluett Weather Service, Pasadena. Short-range forecasts, which give information about the temperature and rain for a period of seven to ten days, might best be used by the retailer for scheduling sales and by growers as warnings, and these are usually about eighty to ninety per cent accurate. The long-range forecast, covering a period of three months, can best be used by growers and wholesalers and proves sixty to seventy per cent accurate. Southern California is one of the most difficult areas for which to predict weather.

J. Awdry Armstrong reported for the resolutions committee, composed of himself, Ray Hartman, Harry Marks, James Crombie and Paul Moulder. A letter of encouragement is to be sent to Imogene Wittsche, who lost her legs in an accident at Lake Tahoe this summer. She is the daughter of Fred Wittsche, nurseryman now with F. Lagomarsino & Sons, Sacramento. The association contributed to a fund to defray medical expenses for Miss Wittsche, and a telegram of appreciation from Mr. Wittsche was read at the convention. A letter of sympathy is to be sent to the family of H. A. Hyde, founder of the H. A. Hyde Co., Watsonville, a charter member of the association, who died this year. A resolution was passed to thank F. R. Kilner, editor of the American Nurseryman, for the space in the magazine devoted to the activities of the California Association of Nurserymen and news of the nursery industry in the state; Ray Hartman for his work as A. A. N. executive committeeman for region 6 for the past two years, and Bert Kallman for his excellent work as convention chairman.

Invitations for the 1950 convention were presented from Fresno, San Jose

WEEKS

Wholesale Rose Grower

"CALIFORNIA GROWN — QUALITY KNOWN"

ROSES

MIDSEASON, 1949-50

If you haven't placed your order for bare-root roses or you are still looking for additional varieties to complete your needs for next spring, we invite your inspection of this list of varieties we can still supply.

The following are available for bare-root, dormant shipping this winter. These plants are top-quality, 2-year field-grown, with vigorous root system and sturdy, well matured canes liberally graded in accordance with AAN standards.

AVAILABLE IN NO. 1 OR NO. 1½

APPLAUSE (Pat.)
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BABY CHATEAU
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CONDESA DE SASTAGO
COUNTESS VANDAL (Pat.)
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CRIMSON ROSETTE (Pat.)
DAINTY BESS
DAME EDITH HELEN
DEBONAIR (Pat.)
DICKSON'S RED (Pat.)
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DUQUESA DE PENERANDA
DIAMOND JUBILEE (Pat.)
EDITH N. PERKINS
FIESTA (Pat.)
FRAU KARL DRUSCHKI
FORTY-NINER (Pat.)
GENERAL MacARTHUR
GIRONA
GOLDEN RAPTURE
GOLDEN SASTAGO
GRAND DUCHESS CHARLOTTE (Pat.)
GLORIUS (Pat.)
HADLEY
HEART'S DESIRE (Pat.)

HOOSIER BEAUTY
JOANNA HILL
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K. A. VICTORIA
LOS ANGELES
LULU
MARY HART (Pat.)
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MISS CLIPPER (Pat.)
MME. CHIANG KAI SHEK (Pat.)
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MRS. P. S. DUPONT
MRS. R. M. FINCH
MRS. SAM McGREDY
NIGHT
NOCTURNE (Pat.)
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PICTURE
PINK DAWN
POINSETTIA
PRES. HOOVER
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RED HOOVER
RED RADIANCE
RED SWEETHEART (Pat.)
ROSE ELFE
ROSE MARIE
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AVAILABLE IN NO. 1½ ONLY

ECLIPSE (Pat.)
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MME. JOSEPH PERRAUD
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SANTA ANA, CALIF.



2-YEAR-OLD OWN-ROOT PAUL'S SCARLET CLIMBERS

Extra-heavy canes—long fibrous root system. Do not confuse with 1-year-olds — these 2-year-olds are much heavier plants.

	Per 100	Per 1000
XX Heavy , 5 to 6 canes.....	55c each	50c each
No. 1 , 3 to 4 canes.....	45c each	40c each
No. 1½ , 2 to 3 canes.....	35c each	30c each

READY FOR DELIVERY NOVEMBER 1

Cash with Order.

(Specify Freight or Express Shipment)

PETERSON & DERING

Rose Growers

Scappoose, Oregon

ROW SIGNS

Do a better merchandising job with these iron sign holders: 50 stands - 200 plastic cards and 3 pencils, only \$30.



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Nursery Label Company
65 WEST UNION ST., PASADENA, CALIF.

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Portland 11, Ore.

Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings and English Privet.

We aim to please
with quality stock.

John Holmason & Sons, Props.

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64 pages, 3000 names, 25¢ per copy
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Americas Largest Grower
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ALMONDS, NECTARINES &
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JUNE BUD & YEARLING FRUIT TREES,
RESISTANT SEEDLINGS, SHALIL & S-37
SEED, SHADE TREES, FLOWERING TREES
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WRITE FOR PRICE LIST & SPECIAL BULLETIN

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Largest Growers of Camellias in Northern California.

Clean healthy stock, can ship everywhere, all container-grown. 1, 4 and 5-gallon cans, 4-gallon, 12-inch redwood tubs, and 14-inch redwood tubs. Send for list of over 150 varieties.

Special price on carlots, over 40,000 plants.

LOUIS VISTICA NURSERY

R. R. 2, on U. S. 99 E.
YUBA CITY, CALIF.

and Santa Cruz, the last-named city being selected. The convention manager came from Santa Cruz to tell the association that they would make the week of the nurserymen's convention begonia week and schedule tours to some of the large growers such as H. A. Hyde Co., Antonelli Bros., Vetterle & Reinelt and Brown Bros. Ranch.

Banquet.

A banquet at Restaurante del Paseo Thursday evening wound up the convention activities. Highlight of the evening was the presentation of a large silver loving cup given by Arthur Cox, publisher, and to be known as the Pacific Coast Nurseryman award, to the first winner, W. B. Clarke, of W. B. Clarke & Co., San Jose, for his contributions of new plant material to horticulture. In following years a committee from the association will select other outstanding persons in the association to receive the award.

It was announced that the northern team had won the baseball game 12 to 11, and Paul Moulder, manager of the southern team, presented a humorous award to Ray Hartman, manager of the northern team. The golf tournament resulted in a tie, and loving cups were presented to Andrew Bird, Ventura, and James Ford, Los Angeles, for lowest scores. Elmer Merz received first place in the bowling tournament and George Goodhue, Fresno, second. Paul Doty presented a gold fish to Mrs. Paul Von Kempf, who outdid all the male fishermen by bringing in the largest fish.

James Crombie officiated at the hilarious initiation of the retiring president, Frank James, into the past presidents' club called Las Passados, or the Has-beens. A show by a magician and dancing completed the evening's entertainment.

Breakfast Meetings.

Tom Sand, president, presided at a breakfast meeting of the California chapter of the American Association of Nurserymen, September 14, and "Tommy" Tomlinson, secretary, read the minutes of the previous meeting. Bert Miller, Milton, Ore., executive committeeman for region 6, spoke on the activities of the national association.

Nominated for delegates to the 1950 convention were Jack McDonnell, Frank James, Richard Plath, James Wilson, Willis Stribling and Charles Armstrong, and as alternates, Franklin Wilcox, Peter Mordigan, "Tommy" Tomlinson and James Clarke.

A Pacific coast section of the Na

tional Mail Order Nurserymen's Association having been formed in July at San Francisco, a breakfast meeting for California mail-order nurserymen was held Thursday morning. A small group heard J. Awdry Armstrong tell about the association and its convention in August at Chicago. Jars of Miracle Plum preserves were on each table by courtesy of Howard & Smith, Montebello.

Trade Exhibits.

Exhibits by nurseries and supply firms were located in the foyer and a porch adjoining the meeting hall. They were made by Ray F. Wilcox & Co., Montebello, foliage plants; Coralstone Co., Santa Barbara, plant containers; Wensill-Gibbs Seed & Nursery Co., Los Angeles, Thompson figs; Floyd C. Dillon, Piru and Carmel, espalier and dwarf citrus trees; Descano Distributors, Inc., La Canada, camellias, roses, foliage house plants and plant food; Atkins & Durbrow, North Hollywood, 2-bushel cartons of peat moss; California Spray Chemical Co., Richmond, insecticides; Patio Wood Products, San Gabriel, redwood plant tubs; Roy Sanders & Co., distributors for Hayes Spray Gun Co., Pasadena; Pumice Brick Co., Santa Barbara; Carscallen Nursery Label Co., Pasadena, labels and color printing; Davis Equipment Co., Santa Barbara, Howard Ratorator; Ellenwood Co., San Diego, Tap-reel for garden hose; Flying Tiger Lines, Burbank, air freight; Resin Industries, Santa Barbara, plastic garden hose; Destruxol Corp., Pasadena, and Drost Sequoia Co.

LAKE COUNTY NURSERIES.

[Concluded from page 15.]

members of the Lake County association are Allen's Nurseries & Seed House, carrying a complete line of nursery stock; Girard Bros., who specialize in the smaller sizes of evergreens and also handle trees, shrubs, perennials and bulbs; Cook's Nurseries and Ridge Manor Nurseries, which grow shrubs, trees and evergreens.

Other members from outside the county are Clyde Wright, Ashtabula; Charles F. Irish Co., Cleveland; Jenkins Nurseries, Winona; Laddie Mitiska, Amherst; North Ridge Nursery, owned and operated by George Gens, Elyria; Howard Graham, Macedonia; Carl Grant Wilson, Euclid, and Stephen Warner, Chagrin Falls. Mr. Warner is vice-president of the Lake County association, does considerable landscape designing and planting and handles a complete line of nursery supplies.



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STURDIER ROOT SYSTEMS**



CALIFORNIA GROWN *Lining Out Stock*

We list just a few from our *unusually large selection*. In 2 1/4" pots — prices F.O.B. Monrovia. Minimum quantity 25 per variety. Immediate shipment to any part of the country.

	EACH
Abelia Edward Goucher.....	12c
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Bouvardia Albatross	15c
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Ilex cornuta	15c
Leptospermum flore pleno	15c
Myrsine africanus	12c
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Veronica buxifolia	12c
Viburnum japonicum	12c
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MONROVIA, CALIFORNIA**

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AND SAVE ON FREIGHT COSTS**



California-grown Rosebushes — *Plus Service*

We specialize in growing rosebushes for sale at wholesale in lots of 100 to 10,000. Through specialization we are able to offer the best in rosebushes and service. Your inquiry will receive our prompt attention.

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DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

**AMERICAN NURSERYMAN, \$1.00 per copy.
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A complete list of **HYBRID TEAS, CLIMBERS, BABIES** and **FLORIBUNDAS**. Also, one of the most complete lists of patent varieties, including the A.-A. R. S. award winners.

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We pay shipping costs on lining-out stock to all points in the United States, Canada and Alaska. No packing charge is made on either lining-out or balled stock.

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EVERGREENS - Propagators & Growers
Wholesale Only
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FOR 1949 SEASON

Fruit Trees
Small Fruits
Fruit Tree Seedlings
Flowering Trees
Shade Trees
Shrubs
Roses

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

RICH & SONS NURSERY
Hillsboro, Oregon

NUT GROWERS MEET.

[Continued from page 12.]

to J. C. McDaniel, secretary, Northern Nut Growers' Association, c/o Tennessee Department of Agriculture, Nashville 3, Tenn.

Field Trips of Interest.

The final day of the meeting was devoted to a field trip to orchards and nut plantings on the station grounds and near-by areas. Five-year-old seedling Chinese chestnuts were observed bearing fruit. These were planted in contoured rows with intervening strips of sod to prevent soil erosion. Ten-year-old grafted Chinese chestnuts of ten varieties were inspected by the group. A collection of twenty-six varieties of black walnuts was also visited.

During the tour the group saw an orchard of apple seedlings which are now top-worked to selected seedlings from state experiment stations and other sources. This showed how promising new seedlings can be tested by top-working on large, established trees. A number of nut-bearing hickory varieties and hybrids were likewise observed.

Of interest was a planting of 1,500 Chinese chestnut seedlings. These were grown from the seeds of selected parent trees at Albany, Ga., and included large progenies from the original parent trees of the new varieties Nanking, Meiling and Kuling.

Breeding plots of filberts and filbert tree fertilizer study plots were visited. Also observed were pruning experiments on three varieties of Chinese chestnuts. Several hundred hybrid chestnut trees, mostly crosses between C. mollissima and crenata, were of interest.

Late in the morning the group inspected the Bixby plantings at Glenn Dale, Md. Here were seen the best of the Bixby hickories, including species hybrids and varieties of shagbarks and shellbarks. At near-by Bell Station, the chestnut and breeding orchards of the U. S. D. A. division of forest pathology were visited.

En route to the luncheon stop at Lulley's Hillside Farm, Bowie, Md., several varieties of northern pecans, bearing seedlings of the Stabler black walnut and native hickory trees were seen. Included also was one of the largest and most perfectly formed papaw trees to be found anywhere in the United States.

Lunch climaxed the 3-day meeting of the Northern Nut Growers' Association. Guests of Julius Lulley, proprietor of the world-famous Harvey's restaurant, Washington, D. C., the

MITSCH NURSERY

Wholesale Propagators and Growers of Evergreen Liners
AURORA, OREGON

Write for new price list, ready about October 15, listing **Azaleas, Heathers, Conifers, etc.**, in rooted cuttings and field-grown transplanted liners.

Available now in well rooted cuttings.

AZALEAS, \$6.00 per 100, \$50.00 per 1000, except where otherwise noted.

Benegiri	Mrs. Fisher
Cattleya	Orange Queen
Christmas Cheer	Salmon Beauty
Coral Bells	Sherwood
Flame	Snow
Flame Creeper, 8c	Sweetheart
Gumpo	Supreme
Hebe	Vesuvius
Hino-Crimson	Vivid
Hinodegiri	Ward's Ruby
Ledifolia Alba	Yayegiri
Maxwell	

Also available now:	Per 100
Andromeda jap.	\$8.00
Chamaecyparis laws. ellwoodi.	8.00
Buxus semp. arborescens.	6.00
(\$50.00 per 1000)	
Cotoneaster mic. minor.	8.00
Cotoneaster mic. thymifolia.	8.00
Hedera helix conglomerata.	6.00
Thuja occ. pyramidalis.	8.00

Christmas Trees

10 carloads of choice Christmas trees available. These trees are unequaled for fullness and color.

Also heavily berried English Holly and Cedar wreaths.

CORNWELL CHRISTMAS TREE CO.

2125 N.E. 39th AVE.
PORTLAND 13, ORE.

MAHONIA AQUIFOLIUM

1-yr., field-grown seedlings, row run,
\$30.00 per 1000; \$4.00 per 100.

Liberal count. No packing charge if check accompanies order.

MOUNT VERNON NURSERY
MOUNT VERNON, WASH.

DEL RANCHO FORTUNA FRUIT TREES and GRAPEVINES

P. O. Box 548
McFARLAND, CAL.

group enjoyed a buffet lunch at picnic tables under spreading pecan trees. After lunch the group inspected the famous Littlepage pecan orchard and the first grafted trees of the Stabler black walnut.

Prominent among the visitors who inspected the orchards and who appear in the accompanying illustration, from a photograph taken by Clarence A. Reed, are, seated in the front row, starting second from left, H. F. Stoke, retiring president, Roanoke, Va.; Dr. John W. Mackay, plant industry station, Beltsville; Julius Lulley, the host, Washington, D. C., and Harry W. Dengler, Maryland extension forester, College Park, Md. Seated at the extreme right in the front row is H. A. English, Vancouver, B. C., and on his left is Dr. H. L. Crane, plant industry station, Beltsville.

BANKRUPTCY PETITION.

A voluntary petition in bankruptcy was filed last month in federal district court by Leslie Edward Marcus, Portland, Ore., owner of the Sherwood Bulb Gardens, also doing business as the Coast Bulb Co., the Country Stores, Six-Corners Gardens, Country Gardens, Rod-Rak Co. and Oswego Bulb Gardens. All offices were located at 5138 North Albina avenue, Portland. He listed total assets of \$237,929 and liabilities of \$108,133. The last inventory, taken January 1, was valued at \$100,000.

INCREASED business has made it necessary for the Presto Mfg. Co., 3507 W. 117th street, Cleveland, O., to move to larger quarters, providing greater manufacturing facilities for the production of the Presto flower pot washer. Coincident with the change of location was a change of the firm's name to one which would associate the company more closely with the flower pot washer.

POWERS TAYLOR, son of Howard C. Taylor, Eastview, N. Y., retiring president of the American Association of Nurserymen, spent his summer vacation working and studying at Monrovia Nursery Co., Monrovia, Calif. He is particularly interested in western methods of developing container-grown ornamental plants and devoted much time to the firm's research department. This month Mr. Taylor returns to Cornell University, Ithaca, N. Y., where he is majoring in horticulture. After graduation, he plans to join Rosedale Nurseries, Eastview, owned by his father.

PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz

PORTLAND 14, OREGON

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After October 1, we will have a good line of Evergreens at our new

STARK STREET BRANCH
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"Not far from the
Center of Portland"
WHOLESALE ONLY

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Write for our Catalog

A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale only

CONSTANT VIGILANCE RESULTS
IN QUALITY STOCK

Fruit Tree Seedlings
Flowering Ornamental Trees
Shade Trees

Combination carloads to Eastern
distributing points.

Write for our List.

Eastern Representative:

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MILTON NURSERY CO.

MILTON Since 1878 OREGON

Flowering, Ornamental and
Shade Trees

Oregon and Washington-grown
Fruit Tree Seedlings

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Our Combination Carlots to
Eastern Distributing Points assure
minimum transportation cost.

Use your letterhead for correspondence.

PEAR SEEDLINGS CHINESE ELM SEEDLINGS BARTLETT PEAR TREES

Clean, healthy, hardy Yakima
Valley-grown stock.

WASHINGTON NURSERIES

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DOTY & DOERNER, Inc.

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Wholesale Growers
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General Nursery Stock

ROSES

Two-year-old, field-grown plants.
Send for wholesale list.

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ROSES—TREE ROSES

Reservations made for 1949-50 season.
Good varieties—excellent quality. Write
for list.

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Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

AZALEAS

AZALEAS.
Strong rooted cuttings.
KAEMPFER.
NOVELTY VARIETIES:
ALICE, salmon-red; ANNY, orange-red;
BETTY, rose-pink; KATHLEEN, rosy-red;
MARTHA, dwarf orchid-pink; SALMON
KING, salmon-orange; THAIS, brilliant
pink; OTHELLO, orange-red.
All at \$10.00 per 100; \$90.00 per 1000.

STANDARD VARIETIES:
ATLANTA, purple; CARMEN, rosy-pink;
CLEOPATRA, shell-pink; FEDORA, salmon-
rose; GRETCHEN, dark mauve; MARY,
deep pink; LEDIFOLIA ALBA, white.
All at \$7.00 per 100; \$65.00 per 1000.

KURUME.
CORAL BELLS, shell-pink; FLAME,
orange-red; HINODEGIRI, crimson-red;
SALMON BEAUTY, salmon; SNOW, white.
All at \$5.00 per 100; \$45.00 per 1000.
Shipped anywhere with "B" certificate
and without treatment.

KOSTER NURSERY
Bridgeton, N. J.

AZALEAS

Thousands of beautiful, well budded, ex-
cellent color, field-grown Kurumes, Christmas
Cheer, Coral Bells, Hinodegiri, Hexe, Pink
Pearl, Salmon Beauty, Snow, Easy trucking
distance to New York and other eastern
points, but we ship anywhere. Satisfied cus-
tomers in 12 states.

	Each	Each
	per 100	per 1000
6 to 8 ins.	\$0.70	\$6.65
8 to 10 ins.	.90	.85
10 to 12 ins.	1.15	1.00
12 to 15 ins.	1.50	1.00

Packing additional. Burlapping, 10c each
extra. 250 at 1000 rate. Order today while
they last, and send for complete list.

TANKARD NURSERIES
Exmore, Va.

HARDY AZALEA MOLLIS.

Mixed colors, seedlings in plant bands,
very bushy, 8 to 12 ins. Big and strong
enough to line out in field this fall. \$12.50
per 100, \$100.00 per 1000. 200 at 1000 rate.
We also have many thousands of field-
grown Azalea mollis, heavy, bushy, 3 times
transplanted plants. Priced from 25c to \$1.00
each at the nursery. No shipping of these
heavy plants.

EDWARDS EVERGREEN NURSERY
West Lafayette, Ohio

LARGE AZALEAS.

Indicas up to 6 and 7 ft., Kurumes up to
4 and 5 ft. Years since these sizes were
available, and years before again available.
Limited quantity. Private planting being
disposed of. State inspected. No shipping.
Prices include delivery in Florida, Georgia,
Alabama and South Carolina via our trucks.
Will make longer haul if quantity ordered
warrants. Write for descriptive list.

LEI-LANI NURSERIES
Keystone Heights, Florida

AZALEAS.

For growing on and forcing. Rooted cut-
tings, \$5.00 per 100.

Coral Bells, Snow, Hinodegiri. Per 100
2 1/2-in. pots\$12.00
4 to 6 ins.30.00
6 to 8 ins.60.00
8 to 10 ins.85.00
Cash with order. Packing free.

DUNLAP NURSERIES, Knoxville 16, Tenn.

AZALEAS.

Hinodegiri, Pink Pearl, Hinomayo, Snow,
Ledifolia Alba, Magnifica, Coral Bells,
Amoena and choice mixed. Rooted cuttings,
ready in September. \$6.00 per 100. Trans-
plants, ready in spring (May), \$13.00 per
100. Packing free. Cash with order.

BUCKINGHAM NURSERY
Box 144 Buckingham, Pa.

AZALEAS.

For Florists' and Landscape Trade.

Quality Stock.

Write for list of varieties and prices.

Can ship anywhere.

GULF STREAM NURSERY, Inc.

Wachapreague, Va.

AZALEAS, Mollis and hardy Ghent azaleas, orange and yellow varieties, for fall or
spring delivery. Write for latest price list
to H. G. Vander Linden, R.F.D. Oyster Bay,
N. Y., representing H. M. Hardy's Nurseries,
Booskoop, Holland.

INDICA AZALEA ROOTED CUTTINGS.
100,000 heavy-rooted cuttings. Ready now.
\$5.00 per 100; \$15.00 per 1000.

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Forms for classified ads close
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Don't miss an issue by sending copy late!

BERRY PLANTS

STRAWBERRY PLANTS.

Strawberry plants that please your cus-
tomer. Well rooted and well crowned.

	Per 100
Aroma	\$6.00
Blakemore	6.00
Premier	6.00
Tenn. Supreme	7.00
Gem Everbearing	8.00
Mastodon Everbearing	7.00
Progressive	6.00

SAM PACK NURSERIES

Route 5 Smithville, Tenn.

CULTIVATED BLUEBERRY PLANTS—

Plant latter September until November 15.
Prices wholesale. Varieties: Cabot, Rancocas,
Rubel, Jersey, 2-yr., \$6.00 per doz., \$32.00
per 100, 3-yr. \$8.00 per doz., \$35.00 per 100.
Fall right time to plant. We ship all over
the United States. Jersey grown, home of
cultivated blueberries. More cultivated blue-
berries grown in New Jersey than the entire
country. **WARREN SHINN'S NURSERY,**
Woodbury, N. J.

GEM EVERBEARING STRAWBERRY PLANTS.

Guaranteed true to name and free of
mixed varieties. Choice northern-grown, No.
1 plants. Booking orders now for spring de-
livery. \$10.00 per 1000, F.O.B. Prepared to
fill mail orders on these and other varieties
using your tags, etc. Write for details.

DAVIS PLANT FARM
Hamilton, Mont.

PIXWELL GOOSEBERRIES, LATHAM
AND CHIEF RASPBERRIES, SCHWAB
GOOSEBERRIES (WORLD'S LARGEST
GOOSEBERRY). 20,000 Pixwell Gooseber-
ries, 2-yr., heavy, 5c each. If you take them
all and dig them yourself. Will furnish tractor
and operator free of charge for digging.

SCHWAB FRUIT FARM & NURSERY
220 N. Fifth St. Mankato, Minn.

RASPBERRIES, 50,000 No. 1 Morrison
blackcap tips, \$30.00 per 1000. For late fall
or early spring shipment.

Victoria rhubarb and Mary Washington
asparagus. Let us quote you on your re-
quirements.

ASHCRAFT NURSERY

Copemish, Mich.

STRAWBERRIES.

Strawberry plants. Certified double inspect-
ed. Missionary, Blakemore, Klondike, Aroma,
Dunlap, \$5.00 per 1000. Gem Everbearing,
\$10.00 per 1000. Progressive Everbearing,
\$9.00 per 1000.

WARREN H. LACKEY Harrison, Tenn.

STRAWBERRIES.

Bush type Everbearing Wayzata Straw-
berry divisions, \$6.00 per 100, \$60.00 per 1000.

PAULSEN'S NURSERY

Minden, Neb.

BLUEBERRY PLANTS. Specializing in

cultivated improved hybrids. Inquiries in-
vited.

HARTMANN'S PLANTATION

Grand Junction, Mich.

BULBS AND TUBERS

HOLLAND-GROWN BULBS.

DARWIN TULIPS, 11 to 12 cm., \$5.00 per
100. Bleu Amable (blue), La Tulipe Noire
(brownish-black), William Pitt (red), Helen
Eakin (white), Rose Copland (rose), Sun-
kist (yellow), Pride of Haarlem (red), After-
glow (apricot), Bartizoon (red), Yellow Giant
(yellow), William Copland (lavender).

HYACINTHS, 16 to 17 cm., \$12.00 per 100.
Gertrude (pink), L'Innocence (white), Bis-
marck (blue), City of Haarlem (yellow),
King of the Violets (purple).

CROCUS, 8 to 9 cm., \$2.00 per 100. King
of the Blues (blue), Golden Yellow (yellow),
Striped Beauty (white and blue), King of
the Whites (white).

MUSCARI (Grape Hyacinth), 8 to 9 cm.,
\$2.00 per 100.

DUTCH IRIS, \$5.00 per 100. Imperator
(blue), Yellow Queen (yellow), Excelsoir
(white).

DAFFODILS (Rounds), King Alfred, \$6.00
per 100; Spring Glory, \$12.50 per 100.

BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

READY NOW.

MADONNA LILIES, MICHIGAN-GROWN.

Quantities	Per 100
1000 6 to 7 ins.	\$15.00
1700 7 to 9 ins.	18.00
1700 8 to 10 ins.	21.00
700 9 to 10 ins.	24.00
1000 10 to 11 ins.	30.00
650 11 to 12 ins.	34.00
500 12 to 14 ins. jumbos	38.00

Send for plant list.

Cash or C.O.D.

MONARCH PLANT FARMS
Lock Box 826 Kalamazoo 99, Mich.

TIGER LILIES.

Single and double tiger lilies. Also Umbel-
latus and Croft.

THE EVERGREEN NURSERIES
Lowell, Ind.

CAMELIAS

CAMELIAS.

Temporary low prices for early fall ship-
ment to make more room for plants.
Semibare roots. You may assort the varie-
ties.

Standard varieties.

Anna Bruneau, Anna Frost, Alba Plena, Au-
guste Delfosse, Bella Romana, Bonnie Bee,
Brilliant, Brooklyana, Brown's Red, Clarke's
Red, Chandleri Elegans, Camen Pink, Chero-
kee, Cliviana, Colonial Pink, Countess of
Orkney, Candissima, Caleb Cope, Dark
Cheerful, Dixie, Elizabeth, Hermes, Jarvis
Red, Kellingtonia, Lady Campbell, Monarch,
Mission Bells, Moss Point Variegated, Mrs.
Abby Wilder, Old Rose, Otome, Pink Perfection,
Pope Pius IX, Prof. C. S. Sargent, Semi-
double Blush, Sarah Frost, T. K. Variegated
and Tricolor.

8 to 10 ins.\$0.30 each
12 to 18 ins.45 each
Rooted cuttings\$17.50 per 100

Rare varieties.

Arefishi (Aloha), Adolphe Audusson, Alba
Superba, Christine Lee, C. M. Hovey, Coletti
Maculata, Col. Firey, Daisagura Variegated,
Duchess of Sutherland, Eleanor Haysgood,
Elizabeth Arden Variegated, Eleanor of
Fairfax, Fanny Bolls, Firebrand, Glen 40,
Governor Mouton, Harlequin, Imura, Kim-
brey, Kumasaka Variegated, La Reine,
Lady Clare, Lee's Pink, Mathotiana Alba,
Marchioness of Exeter, Margaret Higdon,
Mrs. Charles Cobb, Nagasaki, Purple Dawn,
Sweeti Vera, Veldrine, Woodville Red.

8 to 10 ins.\$0.75 each
12 to 18 ins.95 each
Rooted cuttings\$35.00 per 100

Remittance with order.

NATIONAL NURSERIES

Biloxi, Miss.

POT-GROWN CAMELIAS.

1 AND 2-YEAR PLANTS

OF THE BETTER KINDS.

35c to 50c. DELIVERED

WE PAY THE EXPRESS AND PACK FEE.
Safe delivery and satisfaction guaranteed.

WRITE FOR LIST

SHOWING VARIETIES AND SIZES.
TORMEY'S

632 S. Baldwin Ave., Temple City, Calif.

Wholesale Growers of Fine Camellias
For 15 years—The Best from the Far West

CUTTING WOOD

HARDWOOD CUTTINGS.

Andorra Juniper (dep. plumosa)\$15.00
Pfitzer Juniper (chinensis)20.00
Koster Juniper (kosteri)25.00
Irish Juniper (hibernica)20.00
Siberian Juniper (suecica)20.00
Japanese Juniper (japonica)25.00
Savin Juniper (sabina)20.00
Pyramidal Arborvitae25.00
Globe Arborvitae (woodwardi)25.00
Siberian Arborvitae (wareana)25.00
Lombardy Poplar2.00
Amur River North Privet2.75
Niobe Golden Weeping Willow3.00
Wisconsin Weeping Willow3.00
Fussy Willow, large French pink6.00
All above from our own cutting blocks
which, due to the very favorable weather
this season, are some of the finest cuttings
we have ever offered. Every cutting hand
cut to 7 inches. Evergreens trimmed ready
for beds. Cash with order, please, but pack-
ing free. 10 per cent discount in lots of 5,000
or any multiple.

BOB NEPRASH NURSERY
Route 2 Cedar Rapids, Ia.

EVERGREENS

TRANSPLANTS, LINING-OUT STOCK.

	100	1000
Colo. Blue Spruce, X, 4 to 8 ins.	\$10.00	\$90.00
Colo. Blue Spruce, X, 3 to 6 ins.	7.50	65.00
White Spruce, X, 6 to 12 ins.	10.00	90.00
White Spruce, X, 4 to 5 ins.	8.00	75.00
Norway Spruce, X, 2 to 4 ins.	4.00	30.00
Balsam Fir, X, 6 to 12 ins.	8.00	...
Balsam Fir, X, 4 to 6 ins.	5.50	...
Canadian Hemlock, X, 6 to 12 ins.	10.00	...
Canadian Hemlock, X, 4 to 5 ins.	7.50	60.00
American Arborvitae, X, 4 to 10 ins.	8.00	75.00
Mugho Pine, X, 4 to 6 ins.	5.00	40.00
Scotch Pine, X, 3 to 5 ins.	4.50	35.00
American Red Pine, X, 4 to 12 ins.	8.00	...

Prices F.O.B. nursery, packed in damp
moss. Packed free for cash with order. Nice
stock. Write for complete price list.

SUNCREST EVERGREEN NURSERIES
Box 643 Johnstown, Pa.

LINING-OUT STOCK.

Seedlings	Per 100	Per 1000
Acer palmatum, 3 to 6 ins.	\$5.00	\$45.00
Acer palmatum, 8 to 12 ins.	8.00	75.00
transplanted understock	5.00	45.00
Cornus florida, 18 to 24 ins.	5.00	45.00
Euonymus alatus, 3 to 6 ins.	5.00	45.00
Fagus sylvatica, 8 to 10 ins.	8.50	75.00
Fagus sylvatica purpurea, 8 to 10 ins.	15.00	150.00
Juniperus virginiana, 2 to 4 ins.	5.00	40.00
Laburnum anagyroides, 4 to 8 ins.	3.50	30.00
Magnolia glauca, 2 to 4 ins.	4.00	35.00
Picea excelsa, 6 to 8 ins.	5.00	45.00
Picea pungens glauca, 3 to 4 ins.	5.00	45.00
Pinus flexilis, 2 to 3 ins.	4.00	35.00
Pinus mugo, 4 to 6 ins.	5.00	40.00
Pinus mugo, 6 to 8 ins.	7.50	60.00
Pinus nigra austriaca, 4 to 6 ins.	5.00	50.00
Pinus strobus, 4 to 6 ins.	4.00	35.00
Pinus sylvestris, 4 to 6 ins.	4.00	35.00
Pseudotsuga douglasii, 6 to 8 ins.	5.00	45.00
Pseudotsuga douglasii, 8 to 12 ins.	7.50	60.00
Taxus cuspidata capitata, 3 to 6 ins.	10.00	90.00
Taxus cuspidata capitata, 6 to 8 ins.	20.00	200.00
Thuja occidentalis, 4 to 6 ins.	4.50	40.00
Thuja orientalis (understock), 8 to 10 ins.	7.50	60.00
Tsuga canadensis, 6 to 8 ins.	12.00	100.00

Twice transplanted cuttings from beds

Per 10 Per 100

Juniperus communis hibernica \$2.25 \$20.00

Juniperus communis suecica nana 2.25 20.00

Taxus media spreading 2.75 25.00

Taxus media clifforti 2.75 25.00

Taxus media hatfieldi 2.75 25.00

Taxus media hicksi 2.75 25.00

Taxus media Moon's columnaris 2.75 25.00

Taxus media ovata 2.75 25.00

Taxus media Vermeulen 2.75 25.00

Well established cuttings from 2 1/2-in. pots

Per 10 Per 100

Andromeda japonica \$1.75 \$15.00

Euonymus carrierei 1.75 15.00

Ilex crenata bullata 1.75 15.00

Ilex crenata helleri 1.75 15.00

Ilex glabra 1.75 15.00

Juniperus communis hibernica 1.75 15.00

Juniperus communis suecica nana 1.75 15.00

Juniperus depressa plumosa 1.75 15.00

Juniperus glauca hetzli 1.75 15.00

Juniperus horizontalis 1.75 15.00

Bar Harbor 1.75 15.00

Juniperus horizontalis 1.75 15.00

Juniperus pfitzeriana 1.75 15.00

Juniperus pfitzeriana 1.75 15.00

Taxus baccata repandens 1.75 15.00

Taxus cuspidata 1.75 15.00

Taxus cuspidata capitata 2.25 20.00

Taxus cuspidata nana 1.75 15.00

Taxus media browni 1.75 15.00

Taxus media henryi 1.75 15.00

Taxus media hicksi 1.75 15.00

Taxus media Moon's columnaris 1.75 15.00

Taxus media ovata 1.75 15.00

Taxus media Vermeulen 1.75 15.00

Thuja occidentalis globosa 1.75 15.00

Thuja occidentalis globosa novum 1.75 15.00

Thuja occidentalis lutea 1.75 15.00

Mary Corner 1.75 15.00

Thuja occidentalis pyramidalis 1.75 15.00

HESS' NURSERIES

Mountain View, N. J.

LINING-OUT STOCK.

Pot-grown Evergreen Liners.

Each per 100 Each per 1000

Jun. chin. pfitzeriana, 1-yr. \$0.20 \$0.12

Jun. hetzli glauca, 1-yr. .27 .25

Jun. virg. burki, 1-yr. .27 .25

Jun. comm. ashfordi, 1-yr. .17 .15

Jun. comm. hibernica, 1-yr. .17 .15

Arborvitae pyramidalis, 1-yr. .17 .15

Arborvitae pyramidalis, 2-yr. .22 .20

Arborvitae, American, dark green, 1-yr. .17 .15

Arborvitae, globe, Woodward, 1-yr. .17 .15

Taxus media sp. (Anglo-Jap) 1-yr. .20 .18

Yew, 1-yr. .17 .15

Taxus media sp. (Anglo-Jap) 2-yr. .20 .18

Yew, 2-yr. .20 .18

Taxus media, hedge sp., 2-yr. .20 .18

Taxus media hatfieldi, 1-yr. .17 .15

Taxus media hatfieldi, 2-yr. .20 .18

Taxus media hicksi, 1-yr. .17 .15

Taxus media hicksi, 2-yr. .20 .18

Heavy Rooted Cuttings

Jun. chin. pfitzeriana .12 .10

Jun. hetzli glauca .12 .10

Jun. virg. burki .22 .20

Jun. comm. hibernica .08 .07

Jun. comm. ashfordi .08 .07

Arborvitae pyramidalis .09 .08

Arborvitae, globe, Woodward .08 .07

Taxus cuspidata .08 .07

Taxus media browni .10 .08

Taxus media hicksi .10 .08

Euonymus alatus .07 .06

Euonymus alatus compactus .07 .06

Buxus sempervirens .07 .06

2 per cent discount for cash with order.

Packing without cost.

MILAM NURSERY CO.

Tipp City, Ohio

Tauga canadensis.

Nursery-grown Hemlock. Per 100 Per 1000

8 to 12 ins., tr., xx. \$12.00 \$100.00

12 to 18 ins., tr., xx. 15.00 125.00

4 to 8 ins., tr., x. 6.00 50.00

8 to 12 ins., tr., x. 7.00 65.00

12 to 18 ins., tr., x. 9.00 80.00

Abelia grandiflora.

Glossy Abelia.

6 to 12 ins., c. 7.00 65.00

12 to 18 ins., c. 8.00 75.00

Hydrangea paniculata grandiflora.

Peegee Hydrangea.

6 to 12 ins., c. 8.50 75.00

12 to 18 ins., c. 9.50 85.00

18 to 24 ins., c. 11.00 100.00

All stock below is first-quality collected seedlings.

Lining-out Evergreens.

Tauga canadensis.

Canadian Hemlock.

Per 100 Per 1000

4 to 8 ins., s. \$2.00 \$15.00

8 to 12 ins., s. 3.00 25.00

12 to 18 ins., s. 4.50 40.00

Kalmia latifolia.

Mountain Laurel.

4 to 8 ins., s. 2.50 20.00

8 to 12 ins., s. 4.00 35.00

12 to 18 ins., s. 6.00 55.00

Rhododendron maximum.

Rosebay Rhododendron.

4 to 8 ins., s. 2.50 20.00

8 to 12 ins., s. 3.50 30.00

12 to 18 ins., s. 6.00 55.00

12 to 18 ins., 3 br. up. \$0.20

18 to 24 ins., 3 br. up. .25

CUMBERLAND PLATEAU NURSERY

York Route Crossville, Tenn.

100,000 EVERGREENS.

In lining-out sizes for immediate delivery.

Per 25 Per 100

Arborvitae, American, 4 to 6 ins., x. \$3.75 \$12.00

American, 6 to 8 ins., x. 5.00 18.00

Globe, heavy, 4 to 6 ins., x. 6.00 18.00

Globe, reg., 4 to 6 ins., x. 4.00 15.00

Tom Thumb, heavy, 4 to 6 ins., x. 6.00 18.00

Elegantissima, heavy, 6 to 8 ins., x. 5.00 18.00

Pyramidal, heavy, 4 to 6 ins., x. 5.00 20.00

Pyramidal, reg., 4 to 6 ins., x. 4.00 16.00

Buxus sempervirens, 2-yr., x. 5.00 18.00

1-yr., x. 3.75 12.00

rooted cuttings (\$50 per 1000) 6.00

Buxus suffruticosa, 1-yr., x. 3.75 12.00

rooted cuttings (\$50 per 1000) 6.00

Taxus cuspidata, rooted cuttings 7.50

4 to 6 ins., x. 16.50

extra-heavy, 5 to 7 ins., x. 20.00

English, spreading, 4 to 6 ins., x. 4.75 16.50

English, upright, 4 to 6 ins., x. 4.75 16.50

Taxus capitata, 10 to 12 ins., x. 8.50 30.00

6 to 8 ins., x. 5.50 20.00

4 to 6 ins., x. 5.00 18.00

Taxus hicksi, 4 to 6 ins., x. 5.00 18.00

Taxus, Jeffreys, 6 to 8 ins., x. 5.50 20.00

4 to 6 ins., x. 5.00 18.00

Juniper, Andorra, 4 to 6 ins., x. 5.00 16.50

Juniper hetzli, 4 to 6 ins., x. 6.25 18.00

Juniper hetzli, 6 to 8 ins., x. 7.50 20.00

Write for our Special List.

ESHAM'S NURSERIES

Box 65 Frankford, Del.

COLORADO BLUE SPRUCE.

Highest Quality Liners and Finished Trees.

PRICES EACH. Order lots 10 to 50 for delivery to customer's truck or full truck or carloads, F.O.B. Nursery. Add packing charges for small lots requiring packing and crating.

Trans- Sizes Silver Med. Packing

planted ins. Blues Blues Greens Charges

BARE ROOTS, wrapped in wet moss:

X... 4 to 8 (Bed run only) \$0.10 \$0.01

XX... 6 to 12 (Bed run only) .23 .03

XXX... 12 to 18 \$1.65 \$0.75 .48 .09

XXX... 18 to 24 2.20 1.10 .70 .14

BALLED & BURLAPPED or Clovernet Pots:

XXX... 12 to 24 1.70 .80 .50 .20

XXX... 18 to 24 2.30 1.20 .80 .30

XXX... 24 to 30 2.90 1.60 1.10 .40

CUT CHRISTMAS TREES:

XXX... 12 to 18 1.55 .65 .35 .04

XXX... 18 to 24 2.08 .98 .58 .08

XXX... 24 to 30 2.65 1.35 .85 .15

Quantity discounts on tree prices and packing charges: 5 per cent for orders for 51 to 500 trees, 10 per cent for orders for over 500 trees.

Ask for our WANT LIST.

We try to buy from our customers.

These revised prices effective Sept. 1, 1949.

H. W. WEBER

16 Summer Street Weston 23, Mass.

EVERGREENS.

Rooted cuttings, immediate shipment.

Per 100

Taxus media browni \$5.00

Taxus media hicksi 10.00

Taxus media hatfieldi 10.00

Taxus cuspidata 8.00

Taxus alba 8.00

Euonymus radicans 3.00

2-year transplants from outdoor beds, 8 to 12 ins., exceptional value. 15.00

Taxus media browni 15.00

Taxus nigra 15.00

Taxus cuspidata 16.00

Packed and mailed free. Cash with order.

SUNNYBROOK FARMS NURSERY

Chesterland, Ohio

SEEDLINGS.

Per 100 Per 1000

White Spruce 3-yr., 8 to 12 ins. \$ 5.00 \$40.00

Engelmann Blue Spruce 2-yr., 2 to 4 ins. 3.50 25.00

Oriental Arborvitae, Pyramidal 3-yr., 12 to 18 ins. 5.00 40.00

1-yr., 4 to 6 ins. 3.00 20.00

Mugho Pine, 1-yr. 2.00 15.00

Arborvitae pyramidalis, 1-yr. 2.00 15.00

ROOTED CUTTINGS.

Juniperus glauca hetzli, Large 10.00 90.00

Medium 8.00 75.00

Juniperus Andorra, large 8.00 75.00

Taxus cuspidata, large 8.00 75.00

Taxus cuspidata, medium 6.50 50.00

Euonymus patens 7.00 60.00

Ibolum Privet, California 1.00 7.50

Amur River 1.00 7.50

EDWARDS EVERGREEN NURSERY

West Lafayette, Ohio

LINING-OUT STOCK.

ARBORVITAE Per 100 Per 1000

Chinese Pyramidal, 1-1, 3 to 8 ins. \$45.00

Dwarf Oriental, 1-1, 3 to 8 ins. 5.00 15.00

Chinese, 1-1, 3 to 8 ins. 4.00 35.00

Chinese, 2-0, 3 to 6 ins. 3.00 25.00

SPRUCE

Norway, 2-0, 2 to 6 ins. 2.50 20.00

Norway, 2-1, 2 to 6 ins. 4.00 35.00

Black Hills, 2-1, 2 to 4 ins. 4.00 35.00

Black Hills, 2-1, 4 to 6 ins. 5.00 45.00

Colorado Blue, 2-1, 1 to 3 ins. 4.00 35.00

Colorado Blue, 3-1, 3 to 6 ins. 5.50 50.00

Black, 2-1, 2 to 6 ins. 4.00 35.00

Black, 3-1, 6 to 10 ins. 5.00 45.00

PINE

Mugho, 2-0, 2 to 4 ins. 3.00 25.00

Table Mountain, 1-0, 2 to 4 ins. 2.50 20.00

Scotch, 2-0, 3 to 8 ins. 3.00 25.00

Terms, 2 per cent for cash with order.

JOHN G. ZELENKA

R. 2, Box 293 Grand Haven, Mich.

POT-GROWN LINERS.

Two-year pot-grown liners, ready for field.

Stop field loss; plant stock with pot ball. All offerings grown two years in 2 1/2-in. pots.

Per 100

1000 Euonymus vegetus \$20.00

EVERGREENS—Continued

JUNIPERUS VIRGINIANA.
GRAFTING UNDERSTOCKS.
We have a really fine batch of these plants in two grades, the first mechanically transplanted under irrigation on 2-ft. rows; the second potted last year and established for immediate grafting. Both can be shipped with a "B" certificate.
Selected pencil thickness, B.R., \$100.00 per 1000.
Established understocks from pots, pot balls individually wrapped, \$175.00 per 1000.

KOSTER NURSERY
Bridgeton, N. J.LINING-OUT STOCK.
EVERGREENS, POTTED.

	Pot size	Per 100
<i>Taxus cuspidata</i>	2 1/4 to 2 1/2 in.	\$22.50
<i>Taxus hicksii</i>	2 1/4 in.	25.00
<i>Thuja pyramidalis</i>	2 1/4 in.	20.00
<i>Thuja pyramidalis</i> , Imp.	2 1/4 in.	20.00
<i>Thuja woodwardii</i>	2 1/4 in.	17.50

SHRUBS.

Viburnum burkwoodii..... 2 1/2 in. 35.00
Cash with order, packing without cost.
The HOLLAND GARDENS
South Vienna, Ohio

EXTRA-HEAVY TRANSPLANTS.
Ready for field.

	Per 100
<i>Taxus cuspidata</i> , 2-yr., 10 to 12 ins. T.	\$30.00
<i>Taxus cuspidata</i> , 3-yr., 12 to 15 ins. TT	40.00
<i>Taxus capitata</i> , 2-yr., 10 to 12 ins. T.	35.00
<i>Taxus capitata</i> , 3-yr., 12 to 15 ins. TT	40.00
<i>Taxus hicksii</i> , 2-yr., 10 to 15 ins. T.	35.00
<i>Taxus Vermeulen</i> , 10 to 12 ins. T.	35.00
<i>Taxus cuspidata</i> , 2-yr., 2 1/2 in. pots.	23.00
<i>Taxus capitata</i> , 2-yr., 2 1/2 in. pots.	25.00

STROHL'S NURSERY

1404 No. Anthony Fort Wayne, Ind.

LINING-OUT EVERGREENS.

Each
Euonymus patens, 12 to 15 ins. x. br. 20c
Taxus hicksii, 6 to 8 ins. x. 15c
Taxus brownii, 6 to 8 ins. x. 15c
Taxus wymani, 6 to 8 ins. x. 15c
Taxus intermediata, 5 to 7 ins. x. 15c
Taxus capitata, 5 to 8 ins. r.c. 9c
Taxus cuspidata, 5 to 7 ins. r.c. 9c
Juniper, Bar Harbor, 6 to 8 ins. r.c. 9c
SINGER GARDENS Stamping Ground, Ky.

TAXUS, LARGE LINERS.
FIELD-CROWN TRANSPLANTS.
From selected cuttings, best strain.
Taxus cuspidata capitata Per 100 Per 1000
12 to 18 ins. \$60.00 \$550.00
18 to 24 ins. 70.00 650.00
Also B&B *Taxus*, upright and spreading, in landscape sizes for Middle West shipment in carload lots.
BULK'S NURSERIES, Inc. Babylon, L.I., N.Y.

EVERGREEN SURPLUS.

Dark green American and Pyramidal Arborvitae. Irish, Glauca Hetzel and Andorra Juniper, and many other evergreens in many different sizes.
Write for our price list.
We have some nice offers.

J. C. BUNCH & SON

Hulman St. at Brown Ave. Terre Haute, Ind.

EVERGREENS.

Picea oerika panica, 4 to 5 ft. I imported this seed in 1938 from Wiener-Neustadt, Austria.
Pinus nigra, 4 to 8 ft.
Taxus cuspidata capitata, 4 to 6 ft.
Taxus intermediata, 3 to 4 ft.
GIBRALTAR (LEWIS) NURSERIES
Birdsboro, R.D. 1, Pa.

EVERGREENS.

2000 Hemlock, sheared specimens, sizes from 2 to 8 ft., priced from \$1.50 to \$4.00. 6000 White and Red Pine. Sizes from 3 to 6 ft., priced from \$1.50 to \$3.00. Any quantity you wish.

DAVID C. KANEFF NURSERY

R.F.D. 3 Marietta, O.

DOUGLAS FIR.

Pseudotsuga taxifolia douglasii, 8 to 12 ins. x, transplanted, \$12.50 per 100
\$100.00 per 1000
Cash with order, packing free.
AUGUST VORNDRAAN NURSERY
1062 Ridge Rd. Webster, N. Y.

EVERGREENS.

Exceptionally nice 2-yr. field-grown *Juniperus glauca*, burki, Dundee and canaerti. All grafted on Virginia understock. \$1.25 each, B&B F.O.B. nursery.
PAUL ARTERBURN NURSERY
Box 72 St. Matthews, Ky.

COLORADO SPRUCE, B&B.

1500 *Picea pungens*, 1 1/2 to 4 ft. Good color but not glauca. \$1.00 per ft. F.O.B. nursery. No crating or rail shipments.

BROOKFIELD GARDENS

Rt. 6 Delaware, N. J.

HEMLOCK HEDGE (500 feet).

6 to 8-ft. sheared plants in good condition. Good digging. Reasonably priced.
HACKETTSTOWN NURSERIES, Inc.
Phone 287 Hackettstown, N. J.

DOUGLAS FIRS.

8 to 12-inch Douglas Fir, \$7.50 per 100, \$60.00 per 1000.
COASTAL GARDENS Sheridan, Ore.

BARGAIN IN DWARF BOXWOOD.
Two-year-old, transplanted Spring, 1949. 5 to 6 ins. well branched. Will be dug with clump of earth, wrapped in paper.
\$12.50 per 100
ALTAVISTA NURSERIES
Altavista, Va.

EVERGREENS.

Taxus cuspidata (Spreading yew).
3-year bedded liners, 10 to 12 ins. ready for field planting, \$30.00 per 100, \$250.00 per 1000.

NICK'S NURSERY

Near Louisville Anchorage, Ky.

LANDSCAPE EVERGREENS.

Beautiful specimen American Arborvitae, green leaved, dense foliage, 4 to 6 ft. Globe Arb., up to 30 ins. Pyramidal Arb., 3 to 4 ft. Spiny Greek, 2 to 3 1/2 ft. Colorado Spruce, Norway Spruce, etc. Come, see and dig.
THE KINDIG NURSERY Elkhart, Ind.

JUNIPERUS PFITZERIANA.

Select Plants
2 1/2 in. pots, \$21.00 per 100, \$200.00 per 1000.
Terms: Cash.
A. H. HUMBERT SEED CO.
2746 Chouteau Ave. St. Louis 3, Mo.

COLORADO BLUE SPRUCE—Select blue, balled, 24 to 30 ins. \$3.00 each. Red cedar, heavy, twice transplanted, 24 ins. \$30.00 per 100. These can be well handled bare root or can furnish with ball if preferred.
HOME NURSERY Cuba, Kan.

EVERGREENS.

2000 White Spruce, 2 to 4 ft.; Yew, 24 to 30 ins.; White Pine, 3 to 4 ft.; Pfitzers, Andorra, etc. Sacrifice if you dig them.
THE EVERGREEN NURSERIES Lowell, Ind.

GROUND COVERS

VINCA MINOR (Hardy Myrtle).
Have several hundred thousand made up. Large clumps, 20 to 30 canes, well rooted. Prompt shipment. \$4.00 per 100, \$35.00 per 1000.
H. C. WAUGH Cheshire, Ohio

HARDY PLANTS

HARDY PLANT SEEDLINGS.

This list of hardy plant seedlings is available for immediate shipment. These are grown from seeds sown in June, and are well rooted plants. They are packed to reach you in good condition.
The price per 1000 of one variety or color is ten times the 100 price less 5 per cent, and may be used when 250 or more of one variety or color is ordered.

Variety	Per 25	Per 50	Per 100
<i>Aquilegia</i>			
Long-spurred blue	\$1.05	\$1.75	\$3.50
Long-spurred hybrids	.90	1.50	3.00
Mrs. Scott Elliott's Hyb.	1.05	1.75	3.50
<i>Campanula</i>			
<i>Calycanthema</i> , mixed	.90	1.50	3.00
Medium blue	.90	1.50	3.00
Medium, double and single, mixed	.90	1.50	3.00
Medium pink	.90	1.50	3.00
Medium white	.90	1.50	3.00
Carnations, Grenadin pink	.90	1.50	3.00
Coreopsis, double Sunburst	.90	1.50	3.00
<i>Dianthus</i>			
Plumarius, double mixed	.90	1.50	3.00
Sweet Wifelsfield	.90	1.50	3.00
Plumarius, Spring Beauty	.90	1.50	3.00
<i>Helianthemum mutabilis</i>			
mixed	.90	1.50	3.00
Heliospis, Lemoine's Giant	.90	1.50	3.00
Hibiscus, red	.90	1.50	3.00
Hollyhock			
Chater's double mixed	.90	1.50	3.00
Newport Pink	.90	1.50	3.00
Iberia gibraltaria	.90	1.50	3.00
<i>Linum perenne</i>	.90	1.50	3.00
<i>Platycodon</i>			
Early Giant, blue	.90	1.50	3.00
<i>Pyrethrum</i>			
Robinson's Crimson	1.20	2.00	4.00
Robinson's Rose and Pink	1.20	2.00	4.00
Robinson's Hybrids, mixed	1.20	2.00	4.00
Shasta Daisy, Alaska	.90	1.50	3.00
Veronica longifolia	.90	1.50	3.00
For a complete list of our hardy plant seedlings and bulbs, send for a copy of our free catalog just off the press.			
RICHARDS GARDENS "Old Homestead Brand"			
Box 23 Plainwell, Mich.			

PEONIES.

Clean, healthy, state-inspected stock; standard 3 to 5-eye divisions.

	Per 10	Per 100
Baroness Schroeder	\$4.50	\$40.00
Cornelia Shroyer	4.50	40.00
Felix Crousse	4.50	40.00
Kelway's Glorious	12.50	120.00
Laura Dessert	7.50	70.00
Martha Bulloch	8.00	75.00
Mons. Jules Elle	5.00	45.00
Nimbus	6.00	55.00
Phyllis Kelway	5.00	45.00
Reine Hortense	5.00	45.00
Richard Carvel	6.50	55.00
Sarah Bernhardt	4.50	40.00

TERMS: Cash with order. Prices are F.O.B. Techny, Ill.

Send for complete wholesale list.

MISSION GARDENS Techny, Ill.

SNYDER'S

PERENNIAL SPECIALTIES.

Strong, clay-grown plants from open field beds, sure to bloom well next season.
25 at the 100 rate.

ACUTIFOLIAS.

All long-spurred, from finest seed available.

	Per 100
Blue King, excellent blue, white center	\$4.00
Chrysanth, golden-yellow	3.00
Red Shades, white or yellow centers	3.00
Rose Queen, bright pink	3.00
Snow Queen, pure white	3.00
Scott Elliott's Hybrids, all colors	3.50

Achillea Filipedulina, yellow, heavy 4.00

Asclepias Tuberosa, bright orange 4.00

Alyssum Saxatile Compactum, 2.50

thinly sown 2.50

Anchusa Myosotidiflora, clean, heavy 7.00

Baptisia, Australian Baby's Breath 2.50

CAMPANULA MEDIUM (Canterbury Bells) 2.00

Calycanthema, blue or rose, separate 2.00

Double, in mixture only 2.00

Single, in mixture only 2.00

DELPHINIUM.

All spring-sown, have bloomed, cutback.

Belladonna Improved, true and uniform 3.00

Bellamosum Improved, true and uniform 3.00

Lamartine, bright marine-blue, true 4.00

DIANTHUS.

Highland Rose Hybrid, large, single 3.00

Loveliness, dainty mauve, lacinated 3.00

Rose Cushion, true stock, 1-yr. 5.00

Spring Beauty, all colors, mostly double 3.00

CARNATION GRENAHIN.

Thinly sown, bushy, from finest seed available.

King of the Blacks White 4.00

Scarlet Yellow 4.00

Rose Mixed 4.00

Any of the above, separate, labeled 4.00

DIANTHUS BAKWELT'S (Sweet William) 2.50

Giant-flowered mixture, all colors 2.50

Newport Pink, salmon-pink 2.50

Midget, double mixture, uniformly dwf. 2.00

DIENTRA EXIMA.

(Plumy Bleeding Heart)

Thinly sown, bushy, already blooming 6.00

DICTAMNUS (Gas Plant).

Pink, thinly sown, 1-yr., blms. 3rd yr. 6.00

White, thinly sown, 1-yr., blms. 3rd yr. 5.00

White, thinly sown, 2-yr., blms. 3rd yr. 8.00

HEICHERA SANGUINEA.

From flats, March-sown inside, kept in shaded frames outside all summer 4.00

GYPSOPHILA.

All will give full blooming effect next year.

Oldhamiana, pink-tinted, late 3.50

Paniculata, common Baby's Breath 2.50

Repens Rosea, dainty pink trailer 3.50

IBERIS SEMPERVIRENS.

From seed thinly sown, bushy plants 4.00

Little Gem, true stock, dwarf divisions 3.50

Snowflake, true stock, large, lasting white flowers, neat, compact plants with dark green, daphne-like foliage. 3.50

Snowflake, rooted cuttings from frames 3.50

Snowflake, from field rows, spring trans. 5.00

LIATRIS.

Strong "bulbs" sure to bloom well next summer.

Callilepis, large spike, 3-ft., 3rd early 3.00

Longifolia Punctata, many slender 2-ft. spikes, Sept. on. Very attractive ornamental 4.00

Pycnostachya Early Hybrid, 3-ft. 3.00

2nd early 3.00

Pycnostachya Hybrids, tall, Aug. 1 on. 2.50

Spicata, 30-in. spikes, July 1 on, earliest 3.00

Scariosa Alba, Sept. on, few rogues 6.00

Scariosa September Glory 5.00

PLATYCODON.

Lavandula, Munstead Strain, earlier 4.00

Lilium Tenuifolium, 2-yr. bulbs 3.50

Linum Collinum, light blue, dwarf 4.00

Linum Narbonense, Splendens Hybrid 4.00

Linum Flavum Compactum, fine dwarf 3.00

Nepeta Mussini, dwarf, lavender 3.00

Oenothera Missouriensis, soft yellow 4.00

Physostegia, Summer Snow, pure white 4.00

Rose Beauty Oriental Poppy, bright pink 8.00

POLYANTHUS (Primula Veris Hybrids).

Stocky plants, thinly sown in early April.

Monch Strain, originator's seed, all colors, unsurpassed in quality and size 6.00

Munstead Giant, red shades 5.00

Munstead Giant, yellow shades 5.00

Rudbeckia Purpurea, Purple Coneflower 2.50

Saponaria Ocyroides Splendens pink 4.00

Scabiosa, Isaac House Hybrid, heavy 6.00

Stachys Dumosa, for filler and drying 3.50

Thermopsis Caroliniana, heavy plants 6.00

Cash with order, please.

E. J. SNYDER, West Milton, O.

America's Best Source for Hardy Plants is THE WAYSIDE GARDENS Mentor, Ohio Write for Trade List.

HARDY PERENNIALS. We are growers of both seeds and plants of hardy perennials in large assortment, many hundreds of kinds. Ask for Special Wholesale Price List.

R.E.X. D. PEARCE, Dept. N, Moorestown, N.J.

PERENNIAL SURPLUS.

Per 100	2-year	field-grown	Divs.
Heucheras (Coral-bells).....	\$20.00	\$3.00	
Anchusa Myosotidiflora.....		8.00	
Tritomas (Red-hot Poker).....	15.00	6.00	
Plumbago Larpentiae.....		6.00	
Nepeta Mussini.....	12.00	5.00	
Shasta Daisy Supreme, early-flowering.....		6.00	
Shasta Daisies, late-flowering.....		6.00	
Pyrethrum, Robinson's and Kelway Hybs., mixed.....	15.00	6.00	
Spiraea Filipendula (Astilbe).....	12.00	5.00	
Hemerocallis (Day Lily), mixed.....		6.00	
hybs., best varieties.....	15.00		
Hemerocallis Hyperion, true.....	20.00		
Siberian Irises, dark blue.....		5.00	
dwarf Irises, yellow and purple.....		5.00	
Veronica Inca, dwarf.....		6.00	
Oriental Poppy dbie. Salmon Glow.....			
Oriental orange scarlet.....		10.00	
Hardy Geranium.....		15.00	
Minimum order \$5.00. Cash, please. Satisfaction guaranteed.			

MOBILEY GARDENS.

R. R. 6, Box 50 Terre Haute, Ind.

BLEEDING HEARTS.

Amount	3 to 5-eye	5 to 8-eye
each	100 per case	50 per case
100 lot.....	\$6.25	\$6.36
1000 lot.....	20	25

Write for special price for amounts above 5000 and contract growing.

Smaller 3 to 5-eye plants suitable for mail-order business.

15c ea. per 100 lot, 15c ea. per 1000 lot.

We have specialized in growing the Old-fashioned Bleeding Heart for many years. Because of our experience and cooperation with the Soil Conservation Dept., we believe our plants to be the best obtainable. Lous clean-rooted plants, the highest quality in every respect. The above low prices are possible only because of our large volume and cash with order policy.

Funkia subcordata alba (Fragrant Plantain Lily), field-grown clumps.
20c ea. per 100 lot, 18c per 1000 lot.
Special prices for larger amounts.
The CZ NURSERIES, Inc.
Dock Road Madison, W.

HARDY PLANTS.

Transplanted Field Clumps, 15c each.
Carnations: Pink Princess, Cynthia, White Gold, Coreopsis: Golden Shower, Campanula Cullimore, Dianthus: Scoticus, Semperflorens, Tiny Rubies, Lythrum: Morden's Pink, Sweet William, mixed.
June-sown Seedlings, \$3.00 per 100.
Anchusa: Dropmore, Baptisia, Aquilegia: Scott Elliott, Crimson Star, Callirhoe Involucrata, Coreopsis Mayfield Giant, Centaurea Pink Delight, Dian. Semperflorens, Delphinium: Clivedon Beauty, Bellamosum imo Gallardia: Dazzler, Goblin, Portola, Oriental Poppy: Scarlet, Sweet William, mixed, Pyrethrum: Rob. Crimson and Hybrids, Shasta Daisy Alaska: Platycodon: White.
PERKINS BROS. St. Paul 9, Minn.

HARDY PLANTS.

	Per 100
Rhododendron seedlings, 4 to 6 ins.....	\$35.00
Azalea occidentalis, 6 to 12 ins.....	35.00
Azalea altacalene, 4 to 8 ins.....	20.00
Azalea schlippenbachii, 3 to 5 ins.....	20.00
Trollius, yellow.....	20.00
Thalictrum aquilegifolium.....	10.00
Bleeding Heart.....	25.00
Phlox, named.....	20.00
Primrose, polyantha and Julia hybrids.....	15.00

Phlox liners, \$100.00 per 1000.

Also bearded Iris. Write for price list.

PORTLAND AVENUE NURSERY

1409 East 59th St., Rt. 76 Tacoma, Wash.

DAISY DIVISIONS.

Strong, field-grown stock; Majestic, 18c; Mt. Shasta, 12c; Supreme, 8c; White Swan, 5c.
DELPHINIUM BELLADONNA IMP.
1-yr. field seedlings, \$25.00 per 1000.
IVIES IN 3-INCH POTS.
English, 15c; Baltic, 15c; Hahn's, 15c.
Euonymus coloratus, 2-inch pots, 8c.
Euonymus patens, 2-inch pots, 10c.
STRATFORD GARDENS, Delaware, O.

FIELD PLANTS — 100 varieties hardy

Chrysanthemums, \$10.00 per 100; Baptisia australis, \$25.00 per 100; Divisions H and E or Supreme Daisies, \$15.00 per 100; Morden's Lythrum, \$15.00 per 100; Dianthus, Newport Pink, Blood Red, Homeland, Cerise, \$5.00 per 100; Hemerocallis fulva, thunbergi, Mikado, Regal, Kwano, Gold, \$4.00 per 100.
Not less than 10 of any variety. HILLVIEW GARDENS, Fort Madison, Iowa.

PERENNIALS

New and Standard Kinds.
A most modern and complete selection.
New Wholesale List now ready.
Send for your Free Copy Now.
CARROLL GARDENS
Box 16 Westminster, Md.

YUCCA FILAMENTOSA.

2-yr. seedlings, \$5.00 per 100. Good strong plants.

GILBERTSON APIARIES

Kindred, N. D.

Pansies, perennials and rock plants in wide variety. See our catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

PEONIES.

Felix Crousse, cherry-red; Mons. Jules Elie pink; Mons. Martin Cahuzac, darkest red; Baroness Schroeder, white; Karl Rosenfeld, crimson. Strong 3 to 5-eye divisions, \$5.00 per 10, \$40.00 per 100, or \$350.00 per 1000. Terms: Cash with your order, please.

PAYNE DAHLIA FARMS

Route 5 Kansas City 3, Kan.

PEONIES—Large divisions from quality 2 and 3-year-old stock, including Bayadere, Akashigata, Modeste Guerin, Frankie Curtis, Mons. Jules Elie, Edulis Superba, Grover Cleveland, Laura Dessert, Souv. de Louis Bicot, Lora Dexheimer and several finest Japanese and single varieties.

STYERS NURSERIES, Concordville, Pa.

PHLOX.

Our new list of nearly 100 varieties of Phlox is now ready, besides all the other perennials which have been added. Be sure to have it when ordering your needs.

HENRY LE POIRE

Route 2 Zeeland, Mich.

FERNS.

Hardy Ostrich Fern. The most satisfactory hardy fern. For best results, should be planted in Fall. Large clumps, \$6.00 per 100, \$55.00 per 1000.

J. R. PALMER & SON

Blackduck, Minn.

CHIVES.

From outside beds.
Per 100, prepaid, \$2.50
Per 1000, prepaid, \$20.00
TRAUENICHT NURSERY CO.
400 No. Sylvania Ave. Ft. Worth 11, Tex.

PACHYSANDRA TERMINALIS

	Per 1000
1-yr., field-grown.....	\$45.00
2-yr., field-grown.....	75.00

Cash with order, please.

HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PHLOX.

2-yr. clumps: 115 Africa, 125 Salmon Glow, 50 Moonlight Dream, 70 Lillian, 90 Mixed.
\$12.00 per 100, or \$45.00 for lot.

MATTAWAN GARDENS

Box 85 Kalamazoo, Mich.

PHLOX.

Hardy 1-year-old Phlox. Write for our new list today.
KNOLL & WALTERS PERENNIAL FARM
R. 2 Zeeland, Mich.

HARDY FERNS—\$7.00 per 100.
Ostrich, Clayton Lady and Maidenhair.
STRAND NURSERY CO.
Taylors Falls, Minn.

MINTS—Spear-mint, fine plants, \$1.20 per doz. \$10.00 per 100. Apple-mint, peppermint, \$1.00 per doz., \$8.00 per 100. WARREN SHINN'S NURSERY, Woodbury, N. J.

ROSEBUSHES

ROSEBUSHES.

A limited amount of the Best Rosebushes anywhere and at no advance in price. So do not delay; order today before our stock is depleted.

CLIMBERS: Talisman, Paul's Scarlet, Red Radiance, Caledonia, Mrs. P. S. du Pont, Pink Radiance, K. A. V., American Beauty, POLYANTHA: Cecile Brunner, Ideal, Golden Salmon, Kirsten Poulsen, Else Poulsen, Perle d'Or, Mrs. R. M. Finch, TWO-TONE: Talisman, Pres. H. Hoover, Edith Nellie Perkins, Condesa de Santiago, YELLOW: Golden Rapture, Golden Charm, McGredy's Golden Dawn, Golden Ophelia, Mrs. P. S. du Pont, Soeur Therese, Luxembourg, Roslyn, Lady Hillingdon, Betty Grace Clark, Joanna Hill, Sunburst, Yellow Condesa, WHITE: White American Bty., Caledonia, K. A. V., Konigin Luise, White Radiance, F. K. Druschki, Snow Queen, RED: Radiance, Etiole de Hollande, Syracuse, Rouge Malerin, Poinsettia, Grenoble, Ami Quinard, E. G. Hill, Francis Scott Key, Charles K. Douglas, Sensation, McGredy's Scarlet, American Bty., Gen. MacArthur, Senior, Gruss an Teplitz, PINK: Editor McFarland, Belarcliff, Columbia, Pink Radiance, Mrs. Chas. Bell, Shell Pink Radiance, Betty Upchurch, Dainty Bess, Margaret McGredy, Paul Neyron, Doctor, Picture. PRICES: In lots of 100 to 1000, No. 1, per 100, \$30.00, and 1000 and up, \$27.50; in lots of 100 to 1000, No. 2, \$22.50 per 100, and 1000 and up, \$20.00. TERMS: Cash with order or 25 per cent deposit and balance C.O.D. Sold only in multiples of 10 of a grade and variety.
"What a difference just a few cents can make."

MARTIN'S ROSE NURSERY

P. O. Box 155 Arp, Tex.

MULTIFLORA JAPONICA.

DE-EYED ROOTED CUTTINGS FOR BUDDING.

6 to 11 in., \$35.00 per 1000

(Write for special prices on larger quantities)

Also a Large Supply of

HEAVY-ROOTED MULTIFLORA CUTTINGS FOR FENCE ROW PLANTING.

4 to 6 mm. \$30.00 per 1000

(Write for special prices on larger quantities)

December 1 delivery—Cash with order

(Freight or Express Delivery)

PETERSON & DERING

Rose Growers Scappoose, Ore.

ROSES.

We have the following excellent 2-year-old, field-grown rosebushes. We offer them for delivery this fall only: No. 1, \$35.00 per 100; No. 1½, \$30.00 per 100. Grown on multi-flora seedlings.

RED

Ami Quinard Etiole de Hollande

Red Radiance McGredy's Scarlet

PINK

Editor McFarland McGredy's Triumph

Pink Radiance Paul Neyron

YELLOW

Golden Ophelia Soeur Therese

TWO-TONE

Condesa de Santiago Talisman

Pres. Herbert Hoover

WHITE

Frau Karl Druschki K. A. Viktoria

GUS MASCHMANN ROSE NURSERIES

Delaware, O.

ROSA MULTIFLORA JAPONICA, thornless—The large grown strains good for bud-

ding, hedges and soil-erosion control. White

flowers, very hardy.

Rooted 9-in. cuttings, 6 to 8 mm., \$6.00

per 100, \$50.00 per 1000.

2-yr., No. 1, 18 to 24 ins., \$10.00 per 100,

3-yr., No. 1, 2 to 3 ft., \$15.00 per 100,

9-in. cuttings, handmade. Liberal count,

\$3.00 per 100, \$13.00 per 1000.

POPULAR LOMBARDY, 2-yr., 4 to 6 ft.,

\$25.00 per 100; 6 to 8 ft., \$40.00 per 100.

FINGER LAKE NURSERIES

Geneva, N. Y.

ROSES.

We have the following excellent No. 1, 2-year-old, field-grown rosebushes, above our regular requirement. We offer them for delivery this fall only at \$35.00 per 100.

1500 Eldorado, yellow

1500 Konigin, satiny pink

1500 Killarney, Dbl. White, pure white

1500 Mrs. W. C. Miller, salmon-rose

2500 McGredy's Scarlet, crimson-scarlet.

Ask for prices on the entire amount.

BROOKVILLE NURSERIES

Glen Head, N. Y.

ROSES.

Fall and winter shipments scheduled now. Have you reserved your share of outstanding vigorous and protected stock, or will you wait for distress rosebushes suffering heel-yard havoc to be offered? Contracting 1950-51 production. Get yours, field-fresh and tree-free, free. Come to the source.

ARP NURSERY CO.

Box 867 Tyler, Tex.

2-YR.-OLD OWN-ROOT PAUL'S SCARLET.

Per 100 Per 1000

NX, heavy, 5 to 6 canes..... 55c ea. 50c ea.

No. 1, 3 to 4 canes..... 45c ea. 40c ea.

No. 1½, 2 to 3 canes..... 35c ea. 30c ea.

November 1 delivery—Cash with order.

(Freight or express delivery)

PETERSON & DERING

Rose Growers Scappoose, Ore.

TWO-YEAR, FIELD-GROWN ROSES.

A good list of Hybrid Teas, Climbers and

Polyanthas. See our display at this issue for

prices and varieties.

Good roses since 1920. Ask anyone we

serve.

ROSE LAWN NURSERIES Winnboro, Tex.

ROSEBUSHES—2-yr. plants, grown right,

graded right, packed right. Very complete

assortment varieties. Ask for price list and

look your requirements now.

ROSEMONT NURSERIES

D. L. Thompson, Mgr.

Box 839 Tyler, Tex.

NORTHERN OHIO FIELD-GROWN ROSES.

Write for list.

LESTER F. SQUARE NURSERIES

Wholesale Growers.

Painesville, Ohio

ROSES.

See our display ad in this issue.

OZARKS PLANT FARMS, INC.

Seminole Dr. Springfield, Mo.

SEEDS

New Crop Seed.

THE DELPHINIUM OF TOMORROW

LYONDEL GIANT HYBRIDS.

Massive Spikes, Stately, Majestic, Colorful.

A new strain especially selected for its

large-size flowers and wide range of beautiful

colors. Double, semidouble, single. Extremely

hardy. Mixed only.

Seeds from carefully selected plants.

\$6.00 per ¼ oz., \$11.00 per ½ oz., \$20.00

per oz.

CORLISS BROS. INC., NURSERIES

Reynard St. Gloucester, Mass.

LAWN SEED.

Pure KENTUCKY BLUEGRASS lawn seed,

fresh from Kentucky's great meadow land

June. You will like this seed.

100 lbs., \$50.00; 50 lbs., \$26.00; 25 lbs.,

\$14.00, and 10 lbs., \$6.00. All F.O.B. here,

subject market price changes.

WALNUT LAWN FARM

R.R. 2 Lexington, Ky.

SEEDS—Continued

FRESH COLLECTED SEEDS AND BERRIES	
Cornus florida	Each \$0.65
Juniperus virginiana	..... .75
Aronia arbutifolia	..... .65
Aronia melanocarpa	..... .65
Ilex opaca	..... .65
Ilex verticillata	..... .65
Viburnum dilatatum, D.B.	1.25
R. D. 1 WILLIAM J. WRIGHT	
Bridgeton, N. J.	

OSAGE ORANGE SEEDS.
(Maclura, Bois d'Arc)
Closing out 1948 crop seed at 65c per lb. For a limited time am booking orders for 1949 crop at \$1.00 per lb. all F.O.B. here. Terms, cash upon receipt and examination.
RAY WICKLIFFE Seneca, Kan.

TAXUS CUSPIDATA SEEDS.
New Crop—\$6.00 per pound.
Write for list of Hardy Tree Seeds.
AMERICAN BULB CO.
1335 W. Randolph St.
Chicago 7, Ill.

SEEDS.
Domestic plum seeds, 1949 crop, cleaned and floated, reasonably priced. Write or wire for quotations.

SCOTCH GROVE NURSERY
Scotch Grove, Iowa.

CHINESE CHESTNUTS.
Blight-resistant C. mollissima. Pure seeds from our bearing orchard, 75c per lb. Minimum order 10 lbs. October delivery.
WHITFORD NURSERY Farina, Ill.

SEEDS OF HARDY PERENNIALS.
540 Varieties and Species
offered in our Special Wholesale Price List of perennial seeds and plants. Sent on request.
REX, D. PEARCE, Dept. N, Moorestown, N.J.

SHRUBS AND TREES

SPECIAL TRADE OFFERING, FALL, 1949.	
Cotoneasters, B&B	Each
Adpressa, 12 to 18 ins.	\$2.00
Diesiana, 2 to 3 ft.	2.00
Diesiana, 3 to 4 ft.	2.50
Divaricata, 2 to 3 ft.	2.25
Divaricata, 3 to 4 ft.	2.50
Zabell, 2 to 3 ft.	2.25
Buddelias	Per 10
Dubonnet, No. 1	\$3.00
Charming, No. 1	2.50
Farquhar, No. 1	2.30
Ille de France, No. 1	3.00
Ille de France, No. 2	2.50

LINING-OUT STOCK.	
Pfitzer Juniper, 2 1/2 in. pots	\$20.00
Abelia grandiflora, 1-yr. field-grown	
12 to 18 ins.	\$2.50 per 10
18 to 24 ins.	3.50 per 10
Redbud, Cercis canadensis	
12 to 18 ins.	\$8.00
18 to 24 ins.	12.00
2 to 3 ft.	15.00

COTONEASTERS, 1-yr. field-grown.	
Adpressa, 6 to 9 ins.	35.00
Diesiana, 8 to 12 ins.	20.00
Diesiana, 12 to 18 ins.	25.00
Divaricata, 9 to 12 ins.	18.00
Horizontalis, 8 to 10 ins.	25.00
Zabell, 9 to 12 ins.	18.00
PARRY NURSERIES	Signal Mountain, Tenn.

LINING-OUT STOCK.

COTONEASTER DIV., 1-yr. bushy tr.	
Eucalyptus virgatus, 1-yr. pots, epg.	15.00
Malus atropurpurea, 1-yr. gfts.	25.00
Malus purp. Lemoine, 1-yr. gfts.	25.00
Malus schiedackeri, 1-yr. gfts.	25.00
Pyracantha lalandi, 1-yr. pot.	65.00
Sorbus aucuparia, 1-yr. 1 1/2 to 2 ft.	12.00
Tamarix, Summer Glow, 1-yr. cts.	1.50
Viburnum carlesii, 1-yr. pot gft.	40.00
Taxus cuspidata, 2-yr. pot.	22.50
Taxus cusp. browni, 1-yr. pot.	25.00
Taxus cusp. capitata, 1-yr. adlg.	6.00
Taxus cusp. capitata, 1-yr. pot.	25.00
Taxus med. hicksii, 1-yr. pot.	22.50
Thuja occ. pyramidalis, 1-yr. pot.	22.50
Taxus in following varieties are 5-yr.	
twice tr., 10 to 12 ins., at \$45.00 per 100:	
Cuspidata, cusp. browni, cusp. nana, intermedia, media hatfieldi and media hicksii.	
THE COTTAGE GARDENS	Lansing 15, Mich.

GRAFTED HYBRID SHAGBARKS.

Fairbanks and Stratford	Each
1-yr. grafts, 3 to 6 ft.	\$2.50
2-yr. grafts, 5 to 8 ft.	3.25

AMERICAN PERSIMMONS.

Early Golden and Josephine	
1-yr. grafts, 3 to 6 ft.	1.40
2-yr. grafts, 5 to 8 ft.	1.75

BUTTERNUT SEEDLINGS.

From select parent
Root-pruned, 5 to 8 ft. 1.00
Terms: 25 of one variety, 25 per cent cash with order, balance C.O.D., unless known.
F.O.B. here.

NUT TREE NURSERIES Downingtown, Pa.

2-YEAR LINING-OUT STOCK.

Per 100	
6000 Magnolia glauca, 10 to 12 ins.	\$10.00
1800 Aronia arbutifolia, 10 to 12 ins.	10.00
WILLIAM J. WRIGHT	
Bridgeton, N. J.	

LINERS.
Spring Delivery

Each	
Azalea Mollis, cream, branched, XX,	\$0.25
8 to 9 ins. fl.	25
Camellia, Herme, 2 1/2 in. pot.	25
Camellia, Cheerful, 2 1/2 in. pot.	25
Daphne	
Odora, X	15
Cheerum, X	12
Mezereum, 4 to 8 ins., fl.	97
Mezereum, 6 to 8 ins., fl.	10
Mezereum, 8 to 10 ins., fl.	12

Heather	
Bruckenthalia, XX, 2 to 4 ins. frame	12
Med. White, XX, 2 to 4 ins. frame	17
Mrs. Maxwell, XX, 2 to 4 ins. frame	17
St. Kaverns, XX, 2 to 4 ins. frame	15
Carnea, X, flat	12
Medium, X, flat	10
Villa, X, flat	12
King George, X, flat	12
Springwood White, X, flat	12
Thuja woodwardi, X, frame	12
Thuja pyramidalis, X, frame	15
Viburnum burkwoodi, X, 4 to 6 ins.	17
Viburnum burkwoodi, X, 6 to 8 ins.	17
Lithospermum (Heavenly Blue) X, pots	12
F.O.B. Nursery, packed free, C.O.D.	
FOUR STAR NURSERY	
Hi-way 99 at No. 2121H	
Rt. 3, Box 3529	Edmonds, Wash.

QUALITY LINERS.

Per 100	
Red-flg. Dogwood, 10 to 15 ins., grafts	\$60.00
Douglas Fir, 8 to 8 ins., tr.	12.50
American Holly, 4 to 8 ins., adlg.	8.50
Pfitzer's Spdg. Juniper, 4 to 6 ins., tr.	22.50
Canadian Hemlock, 5 to 12 ins., tr.	15.00
Magnolia glauca, 6 to 12 ins., tr.	17.50
Az. schlippenbachii, 4 to 6 ins., tr.	25.00
Taxus capitata, 4 to 6 ins., tr.	22.50
Franklinia, 8 to 12 ins., tr.	25.00
Az. mucronulata, 4 to 6 ins., tr.	30.00
Rho. caroliniana, 4 to 6 ins., tr.	22.50
Magnolia soulangeana, 8 to 15 ins.	65.00
Red-leaved Jac. Maple, 6 to 15 ins., grafts	75.00

Send for new Fall List.
POSSUM HOLLOW NURSERIES
6327 Magnolia St. Philadelphia 44, Pa.

TAXODIUM DISTICHUM—We can furnish this scarce and beautiful tree in sizes 3 to 4 ft. and up to 7 ft. B&B. Our plants are bushy and straight.

ACER SACCHARUM—We have many thousands of these in all sizes from 3 to 12 ft. The finest lot we ever saw.

THE WING NURSERIES
Mechanicsburg, Ohio

RED JAPANESE MAPLE SEEDLINGS.

Carefully selected for good red color.

Per 100	
Acer palmatum atropurpureum	
10 to 13 ins., XX	\$40.00
8 to 10 ins., XX	30.00
6 to 8 ins., XX	25.00

ELWOOD HUBBS
204 Delaware Ave. Palmyra, N. J.

PINK DOGWOOD.

Each	
3 to 4 ft. buds	\$2.00
2 to 3 ft. buds	1.50
18 to 24 in. buds	1.00
12 to 18 in. buds	.75
Field-grown dormant buds for lining out, bunched fall, 1949	.25

Box D TENNESSEE NURSERY CO. Cleveland, Tenn.

PINK DOGWOOD OUR SPECIALTY.

3 to 4 ft.	\$2.00 each
2 to 3 ft.	1.50 each
18 to 24 ins.	1.00 each
12 to 18 ins.	.75 each

IKE HAWKERSMITH NURSERY
Winchester, Tenn.

VEGETABLE ROOTS

WASHINGTON ASPARAGUS ROOTS—Two and 3-yr. Asparagus roots. Plant this fall. Prices quoted. WARREN SHINN'S NURSERY, Woodbury, N. J.

McDONALD RHUBARB—\$15.00 per 100, \$135.00 per 1000. Canada Red Rhubarb, \$17.50 per 100, \$150.00 per 1000. Eastern Sunrise and Valentine, \$40.00 per 100.

HOME NURSERY Cuba, Kan.

MISCELLANEOUS

Per 1000	
CHINESE ELM SDLGs.	
12 to 18 ins., 1-yr.	\$10.50
18 to 24 ins., 1-yr.	15.00
18 to 24 ins., 2-yr. (root-pruned)	17.00
2 to 3 ft., 2-yr. (root-pruned)	25.00

NATIVE PLUM SDLGs.

1/4 in. and up, 1-yr.	18.00
3/16 to 1/4 in., 1-yr.	14.50
2/16 to 3/16 in., 1-yr.	9.00

PRUNUS AMERICANA SEEDS. (1949 crop, cleaned, washed pits) \$1.00 per lb.

Write for wholesale prices on other seedlings: Soft or Silver Maple, Catalpa, Redosier Dogwood, Russian Olive and American Elm.

PIPER-FILBY NURSERY
426 Kearney Manhattan, Kan.

Surplus Stock

can be easily and quickly turned into

Cash

Hasting it in the

American Nurseryman Classified Ads.

CONCORD GRAPEVINES—2-yr.-old. No. 1, \$6.00 per 100, \$50.00 per 1000. No. 2, \$5.00 per 100, \$40.00 per 1000. 1-yr.-old Concord, No. 1, \$5.00 per 100, \$40.00 per 1000. No. 2, \$3.50 per 100. Concord cuttings, \$2.75 per 1000.

PEACH TREES — Varieties: Champion, Polly, Redhaven, 2 to 3 ft., \$12.00 per 100; 3 to 4 ft., \$15.00 per 100.

LOMBARDY and CAROLINA POPLAR—5 to 8 ft., 40c each; 8 to 10 ft., 60c each.

PONZER NURSERY Rolla, Mo.

SUPPLIES

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

KNOCK-DOWN FLATS.

16x12x2 1/2	\$16.25 per 100
16x14x3 1/2	20.50 per 100
20x14x2 1/2	20.00 per 100
16x14x3 1/2	21.00 per 100
22 1/2 x15x2 1/2	22.00 per 100
22 1/2 x15x3 1/2	25.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray bottles.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

DAHIA OR TREE LABELS.

Priced per 1000	
3 1/4 x 1/2 ins., notched, not wired	\$2.50
3 1/4 x 1/2 ins., wired	3.00

POT LABELS.

4x 1/2 ins. (cartons 1000 each)	2.50
5x 1/2 ins. (cartons 1000 each)	2.75
6x 1/2 ins. (cartons 1000 each)	3.25

Priced per carton.

8x 1/2 ins. (cartons 500 each)	2.50
10x 1/2 ins. (cartons 500 each)	3.00

GARDEN STAKES.

Priced per carton.

8x 1/2 ins. (cartons 250 each)	2.00
10x 1/2 ins. (cartons 250 each)	2.25
12x 1/2 ins. (cartons 100 each)	1.25

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

YOHO & HOOKER Youngstown 2, Ohio

JUNIOR PEAT.

Many users say, "Best peat we ever had." A fine feltlike mixture of Sphagnum, Sedge and Reed peats. pH 4.5, 94 per cent organic, high nitrogen content.

JUNIOR TOP-DRESSING.

A fine grind. Slightly decomposed peat, machine-mixed with gray sand. Unexcelled for lawns and golf greens. Florists want it for seed flats and bench work. pH 4.5.

JUNIOR HUMUS.

Light, fluffy, fibrous. Small amount of black muck mixed throughout. Excellent soil conditioner and mulch. pH 5 to 5.5.

Send \$1.00 for postpaid sample of all three. Available in burlap bags holding 1/5 cu. yd. and in bulk carloads, the economical way to buy. Prices as low as quality and natural curing will permit. Dealers wanted.

JUNIOR PEAT COMPANY

481 South Main Street, Geneva, New York

CAMOSHADE.

WAR SURPLUS CAMOUFLAGE NETTING.

Just the thing for a new partial-shade house. Hundreds now in use for sun, wind and frost protection. They are being used to shade azaleas, camellias, mums, seed beds, cuttings and tender plants. Makes attractive covering for salesyards. Also for all other uses in the nursery and floral industry where partial shade and plant protection is necessary. Treated against mildew and rot. Will last for years. Most economical to use. 3 sizes available now. F.O.B. our shipping point. Supply limited.

22 ft. x 22 ft., \$ 8.25 each	
29 ft. x 29 ft., 9.95 each	
36 ft. x 45 ft., 14.25 each	

WILSON BROS.

Newsome 6, Texas

Now is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, galvanized with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. Inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN E. A. FARLEY

P. O. Box 946 3333 Gentilly Blvd.

Columbus, Miss. New Orleans, La.

GIBLART Frost Covers pay for themselves.

Economical, long-lasting, ideal for windbreaks, 6 ft. wide; 50 ft., \$12.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

SPHAGNUM MOSS.

Write for prices on burlapped and wire-bound bales.

THOMAS RESHEL City Point, Wis.

ELECTRIC PROPAGATING KITS.
FOR GREENHOUSE BENCHES OR HOT-BEDS—Each contains long-lasting HEAT-SUM CABLE, Soil Thermostat, Pilot Lamp and Thermometer.

Sq. Ft.	Length and	No. Units	Price
Unit Heated Watts			
A 20 200 110 1- 60 ft.			\$18.30
B 40 400 110 2- 60 ft.			22.50
D 80 800 110 1- 300 ft.			22.10
E 150 1500 110 1- 500 ft.			43.80
F 300 3000 220 1-1000 ft.			65.90

All prices F.O.B. Seattle
COLDFRAME FROST PROTECTION —
Same equipment will protect 50 PER CENT
MORE AREA. LITERATURE ON REQUEST.
L. N. ROBERSON CO.
1539 East 103rd St. Seattle 55, Wash.

SPECIAL OFFER—BIG SAVING!

Three cars, solid Rattan Bamboo Cane
Stakes, Green Dyed—far superior to the hol-
low cane. Florists, nurserymen and dealers
have accepted this as the finest cane for
staking in existence. Order immediately by
the bale. Shipped direct from the car.

Bale of 2000	Bale of 2000
1-ft. \$ 6.90	3-ft. \$16.60
1½-ft. 7.95	3½-ft. 18.85
2-ft. 10.60	4-ft. 23.25
2½-ft. 13.80	

F.O.B. Chicago.
AMERICAN FLORIST SUPPLY CO.
A Division of American Bulb Co.
1235 W. Randolph St. Chicago 7, Ill.

PINE CONES.

250 (approx.) White Pine Cones, 3½ to 6 ins.	\$1.20
Shelacked White Pine Cones, per 100. 2.00	
Loblolly Pine Cones, 3 to 4½ ins., Per bu.	2.00
Slash Pine Cones, 3½ to 6 ins., Per bu.	2.00
Longleaf Pine Cones, 5½ to 8 ins., Per bu.	2.00
Hard Pine Cones, 1½ to 2½ ins., Per 100	1.50
Sample box cones, labeled, postpaid.	2.00
Brass Liberty Bells, 1½ ins. each. ....	.25

MARYLAND NURSERY
Hyattsville, Md.

PLANT BOXES

KNOCK-DOWN PLANT BOXES.

Ends of good grade southern Yellow Pine,
sides and bottoms of one piece ¼-in. Ma-
sonite.

Standard specification, inside measurements/
12x5x5 \$12.00 per 100
15x5x5 15.00 per 100
All other sizes quoted on request. Prices
F.O.B. Birmingham. Prompt shipment, any
quantity. Attach check to order.

We make mixed shipments of flats, plant
boxes and spray boards.

HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

MICHIGAN PEAT.

"HIGH NITROGEN-QUALITY PEAT"
gives results you can't beat. For 30 years,
trade's favorite. pH 4, 91 per cent organic.
Fine, medium, coarse. Write for free sample.

2 to 19 bags (100 lbs.—4 bu.)	Each \$1.50
20 to 200 bags (100 lbs.—4 bu.)	1.60

F.O.B. peat bags, Capac, Mich. Dealer
franchises open. Tests prove M. P. does bet-
ter job. WHY PAY MORE? ORDER TODAY!
MICHIGAN PEAT, Inc.
267 Fifth Ave., New York 16, N. Y.

PEAT MOSS.

Highest-quality acid sphagnum peat moss
weighing about 8 lbs. per loose bushel, 120-lb.
hydraulic-compressed bales, \$3.25 each; 10 or
more bales, \$3.00 each. Large burlap half-
bale bags, \$1.60 each; 10 or more, \$1.50 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

MINNESOTA WHITE CEDAR FLATS.
12x16x2½ \$16.24 per 100
14x20x2½ 20.00 per 100
14x20x3½ 23.00 per 100
Other sizes quoted on request. Also crating
and other lumber. Aspen and Pine, F.O.B.
Cook, Minn. Please attach check.
H. C. HILL & SONS, Cook, Minn.

HIGH NITROGEN HORTICULTURAL PEAT.
Unexcelled for soil-improving work. Used
by leading growers for a quarter century.
One 3-bushel bag, \$1.25; 10 bags, \$1.16; 25
bags or more, \$1.00 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

WISCONSIN'S QUALITY SPHAGNUM
MOSS.
Clean, long-fibered, solidly packed in bur-
lapped or wired bales of standard size,
direct from drying beds. None better.
Trucked when feasible.
WARRENS MOSS CO., Box 7, Warrens, Wis.

SEED STORE FIXTURES

Bins, Cabinets.

WALKERBILT WOODWORK, Inc.
Penn Yan, N. Y.

PRINTING—Letterheads, Billheads, State-
ments, Cards, Envelopes, Tags, Blotters,
Folders. Samples sent.
J. GARLAND HILL, Dept. A, Seaford, Del.

Increase your business
by offering needed
stock and supplies
through the Classified Ads.

WANTED

WANTED.
25 SALIX BABYLONICA.
3 to 4½-in. caliper

20 ft. high
WADLEY & SMYTHE
32 E. 57th St. New York, N. Y.

WANTED TO BUY.

Stock of all kinds. We are starting a Nurs-
ery dept. and will be in the market for all
sizes of miscellaneous nursery items.
ROTTGERINGS GREENHOUSES
2600 North 13th St. Paducah, Ky.

WANTED.

Want stock and price list from wholesalers
of evergreens, ornamentals and fruit for
retail catalog.

BARRINGER
Loachapoka, Ala.

NEW JERSEY AWARDS.

Several nursery and florists' firms
were included among sixty commer-
cial and industrial establishments situ-
ated throughout the New Jersey
highway system which received, Sep-
tember 22, citation awards for high-
way beautification from the Garden
Club of New Jersey.

The firms receiving the awards in-
cluded the Mount Pleasant Nursery,
Livingston; Flowers by Wilson, Con-
vent Station; Lee's Flower Shop,
Toms River; Cliffview Greenhouses,
Bound Brook, and Bauman Bros. Flo-
rists, Rahway.

During a survey covering about
3,000 miles of highways the estab-
lishments were checked on the basis
of attractiveness, taking into consid-
eration landscaping, suitability, dis-
tinction and special factors such as
adequate and safe off-highway park-
ing space, screened service area, and
business signs of a suitable nature, as
well as well kept buildings and
grounds.

Judging was conducted by the Gar-
den Club of New Jersey in coopera-
tion with the state highway depart-
ment, state motor vehicle division,
state department of health, state de-
partment of conservation and econ-
omic development, state department
of agriculture and the state chamber
of commerce. Representatives of the
cooperating state departments said
the competition has focused public
opinion on the urgent need for im-
proved standards of health and
safety. B. J.

BRIGGS NURSERY, 254 West
Grand avenue, Bellmore, L. I., N. Y.,
was started in April by Walter R.
Briggs.

THE Southern Nurseries, Inc., is a
new corporation whose home office
is at 5235 West Lovers lane, Dallas,
Tex., and which will have offices also
at San Antonio and Houston. H. E.
Jones, secretary and treasurer, states
the firm will offer complete and ex-
pert service in landscape design and
construction service.



SEYMOUR SMITH
"Snap-Cut"
EASIEST CUTTING PRUNERS

ORIGINAL "Snap-Cut" principle. V-Blade cuts onto
a soft metal "anvil"—snaps off large branches like
twigs! Long lasting, guaranteed.

No. 119 Hand Pruner, 8" long, \$2.25. No. 149 Long
Handled Pruner (20" ash handles), \$4.00. 10%
higher, Denver and West. At dealers or write direct.

PRUNING HANDBOOK, authentic, 40-page, 25c
prepaid, or no charge with any of our tools. Circular
free on POLE PRUNERS AND SAWS.

SEYMOUR SMITH & SON, Inc.
901 B Main St., Oakville, Conn.



FOR PERFECT COMPOST

- Screened
- Shredded
- Ground
- Mixed

Rocks, trash separat-
ed. Grinds manure
and tough organic
matter through roll-
ing screens, wet or
dry. Screens fine as wanted through perforated
screens. Free comp st c ular.
Dealers Wanted in Several Open Territories
W-W GRINDER CORP. Dept. F
Wichita, Kan.

BENOX

Lemke brand of Oxyquinoline Benzozate

for DUTCH ELM DISEASE

Information on Request

B. L. Lemke & Co., Inc.
Manufacturing Chemists
LODI, NEW JERSEY

Telephone:
New York: BRyant 9-0677 Lodi: PRescott 7-5805

NEW McLEAN GARDEN TRACTORS

For

- Sickle Bar Mowing
- Lawn Mowing
- Plowing - Tilling

\$147.00

UNIVERSAL MANUFACTURING CO.
324 W. 10th St.
INDIANAPOLIS 2, IND.

FERTO POTS

Made of Cow Manure

Plant eats pot. Write for booklet.

Dealers—Agents wanted

ALLEN CO. PITTSBOWN, N. J.

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.

Liners: 25¢ line; minimum order \$2.00

FOR SALE

Well established nursery, 16 acres, bringing good income. Owner retiring. Well equipped sheds, small barn, 2 six-room modern houses, 2 greenhouses, one 16x100 ft., the other 30x100 ft., hot water, stoker fired. Located 5 miles from city limits, serving a population of 300,000, on Highways 11 and 70 between Knoxville and Oak Ridge, Tenn. Highly developed landscape department. Azaleas and broad-leaved evergreens specialty, all-year planting. Address replies to Box 652, care of American Nurseryman.

FOR SALE

Nursery located on Highways 60 and 99 in California. Established 12 years in fast growing community. Ideal climate for relief of asthma and sinus trouble. Big opportunity for active young couple. Priced under market for quick sale. \$12,500 will handle. Write owner.

L. F. EHLERS

Banning, Calif.

FOR SALE OR PARTNERSHIP

Well established nursery, fruit, evergreens, shade trees, roses and shrubbery. Good opportunity for a man with small capital to operate. Owner would give 50 per cent of all stock now growing in nursery sold. Ideal location. Highway 66, 20 miles from Tulsa on school bus route. 5-room residence furnished. Address Box 654, care of American Nurseryman.

FOR SALE

Well established landscape, small nursery and maintenance service, excellent location in expanding community, high-class clientele. South Shore Long Island, N. Y. Fully equipped, including 1947 truck, Rototiller, tools, land for growing stock and business headquarters. House optional. Retiring. Write Box 656, care of American Nurseryman.

FOR SALE

Good-paying, well established, retail and landscape nursery. Complete in every way. Good land, buildings, inventory and equipment. Reason for selling, death of wife. Will stay on to help new owner get started. This is worth investigating. J. H. KRAUSE

R. D. 2

Aurora, Ill.

FOR SALE

Well established nursery. Owner retiring. 24 acres; 17 planted with fine-quality material. Buildings and greenhouse in excellent condition. Price right and good terms.

BERNATH'S NURSERY
Pleasant Valley, N. Y.

FOR SALE

Profitable retail nursery and garden supply store in fast-growing location. Established over 21 years in a suburb of Los Angeles. Property 200 ft. frontage on main business street, block of business center. With or without home. \$10,000 cash, balance terms.

CRAIG NURSERY & FLORIST
LaCrescenta, Calif.

SITUATION WANTED

In nursery in the south or in California, from December 1 until about April 1, by part owner of Wisconsin nursery, single, navy veteran, 25 years old, 5 feet 10 inches tall and weighing 160 pounds. Has spent entire life in nursery business. Education includes one term in college of agriculture; primarily interested in additional experience. Willing to do any type of work; high wages not necessary, but want to purchase own room and board. Have own car and willing to drive a reasonable distance to work. Ready to start December 1.

Address Box 657, care of American Nurseryman.

SITUATION WANTED

Available in near future. All around mail-order catalog man. Complete understanding of layouts, artwork, production and distribution. Past experience with largest merchandising, mail-order and wholesale firms. Complete knowledge of nursery stock, seed and plant business.

Address Box 653,
care of American Nurseryman.

SITUATION WANTED

Married vet completely experienced in propagation and handling strawberry plants. Will furnish part or all equipment necessary to operate in this branch of industry. Desires position with nursery selling in quantity. State proposition, salary and location in first letter. Write Box 647, care of American Nurseryman.

HELP WANTED

Man, or young man, who can solicit, design and sell small landscape plans, and do general nursery and landscape work. Not required that he be college graduate. Steady and permanent work in midwest. Give age, size family, experience, references and minimum salary required.

Address Box 655, care of American Nurseryman.

HELP WANTED

Salesman for immediate employment. Man with sound knowledge of plant material and personality to meet people and interest them in product. Take over an established territory in Philadelphia and Montgomery counties. A serious and willing worker may earn \$5000 to \$7000 a year by reasonably earnest effort. Concentrated effort can substantially increase this.

ANDORRA NURSERIES, Inc.
Ridge and Butler Pike, Conshohocken, Pa.

HELP WANTED

Nursery propagator wanted. Man must be thoroughly familiar with raising evergreens, shrubs and trees. Knowledge to include experience in grafting, budding, making cuttings and raising plants from seed.

Write us for an interview.
DEKALB NURSERIES, Inc.
NORRISTOWN, PA.

WANTED

GARDEN CENTER

Will pay up to \$75,000.00 all cash for garden center or landscape nursery located in New York, New Jersey or Connecticut within commuting distance of New York city. Address Box 646, care of American Nurseryman.

HENRY A. ROSS, a graduate in horticulture at Ohio State University, is starting a 16-acre retail nursery on Route 42, Strongsville, O., and plans to specialize in rhododendrons and azaleas and the hybridization of uncommon plants.

THE recent sale is announced of the business and nursery stock of M. W. Hinn & Co., Sewickley, Pa., to W. A. Morten, Jr., landscape contractor and nurseryman at Coraopolis, Pa. The remainder of the stock now located at M. W. Hinn & Co. will be sold by Mr. Morten or moved to his nursery next fall.

JOHN W. JOHNSON, 3538 Paseo street, Kansas City, Mo., recently purchased twelve acres of land, upon which he plans to open a cash-and-carry garden shop. In addition to a general line of nursery stock, some of which he will grow himself, he will carry lawn furnishings and supplies.

GLEN H. ROSE, former instructor with the Arkansas agricultural extension service, has joined the Twitty Nursery, Texarkana, Ark., as landscape representative. Mr. Rose was reared on his father's nursery, at Russellville, and studied landscaping at Arkansas Polytechnic College, Russellville, and at the University of Arkansas, Fayetteville.

HELP WANTED GROWER

Excellent opportunity for an experienced grower with a large wholesale nursery.

Must be capable of operating a greenhouse, propagating evergreens from grafts and cuttings, experienced in propagating shrubs from softwood cuttings, and able to produce an assortment of perennials.

Write, giving full qualifications and references in first letter.

THE WILLIS NURSERY CO.
Ottawa, Kansas

HELP WANTED

Nursery foreman, by leading Colorado nurseryman. Must have had experience in handling men, propagation, knowledge of stock and sales ground selling. State experience and give references. Address American Nurseryman, Box 641.

HELP WANTED

Salesmen for well established nursery with landscape architect facilities. Extensive retail trade.

TOWSON NURSERIES, Inc.
Near Baltimore Towson 4, Md.

SITUATION WANTED — Married man, age 36, one child, would like on-the-job training for veterans. Raised on nursery; diploma in landscaping, home-study course. Interested mainly in landscaping, experienced supervising small jobs. Can start about Nov. 15. Own car. Write: R. J. LUCKHARD, Rt. 1, Littlefield, Tex.

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SHADE TREE CONFERENCE.

[Continued from page 10.]

sional tree men concerning trees be informative and accurate.

The presence of trees along streets and highways, in city parks and throughout the community is now more important than ever, for they tend to relieve the mental strain and physical fatigue that the mode of life in this era generates. Trees are valuable esthetically; they are valuable also from a dollar-and-cents viewpoint. Shade trees reflect standards of living; good residential areas always are plentifully supplied with trees, but slum areas have few or none at all.

Declaring that this nation's shade trees are everybody's business and that their welfare would advance if a good public relations program could be put into effect, Mrs. Smith said, "Too many people see shade trees as useless ornaments." This viewpoint must be corrected, she added.

Future of Arboriculture.

V. I. Shield, of Shield Shade Tree Specialists, Clayton, Mo., in speaking on the topic, "Where Is Arboriculture Headed?" said that, while no one could foretell accurately the future of any industry, trends in the gradual expansion of an industry or

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business over a number of years did serve as indicators of its probable further development. In the field of arboriculture, Mr. Shield observed, one trend has been toward decentralization of work and increasing opportunity for the arborist with a small organization to conduct a successful business. Twenty-five years ago most tree work done in this country was performed by men in the employ of large organizations; there were few arborists operating independently and as established businessmen in their own communities. This condition no longer exists; today, one or more competent arborists may be found operating successful business enterprises in almost every community.

Prior to 1925, said Mr. Shield, fifty per cent of the arborists' work consisted of treating and filling cavities in trees; today, work of this nature is overshadowed by pruning, spraying, fertilizing and other arboricultural practices. Formerly, most of the arborists' work was performed on trees in large private estates, a single job often keeping a crew occupied for weeks. The stock market crash of 1929, the depression that followed, World War II and the general increase in taxes that accompanied these events have tended to reduce the number of large private estates and also the number of big jobs for the arborist. The trend of the job size is downward; eventually, Mr. Shield predicted, expert tree care will be within the financial reach of all homeowners.

There has been a general trend toward mechanization in arboriculture. This trend, beginning with the automobile, that enabled arborists to travel long distances to their jobs, has led to the development of gasoline, electric and pneumatic-powered tools that may be used in almost every phase of tree work.

Last, but not least in importance to the stability and the future of arboriculture, is the trend toward better business practices, more general knowledge of scientifically correct methods of treating tree ailments and greater cooperation between arborists. "Such organizations as the National Shade Tree Conference and the National Arborist Association have done much to bring about needed improvements in arboriculture. The solution of any problems that may confront arboriculture in the future rests largely with such organizations," said Mr. Shield.

Grade Changes.

Edward W. Higgins, of Frost & Higgins Co., Arlington, Mass., in his discussion of "Grade Changes—How

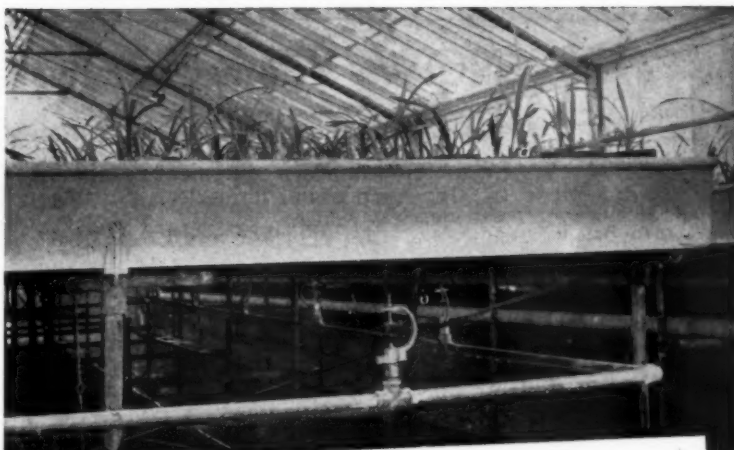
Far Must We Go in Treatment?" compared trees to men. "Both must drink, and both must have air. If a tree, or a man, is buried, death results," he said.

The injurious effects of earth fills around the trunks of trees and over the root area may be minimized if, before filling operations begin, proper measures are taken to insure constant and adequate aeration of the root system. This can be accomplished by installation of a wheel-shaped tile field, the trunk of the tree involved serving as the hub and the lines of tile extending spoke-like over the entire root area. An open well, or one filled with coarse gravel, should be constructed around the trunk, the tile lines extending from this well. Upright tiles leading to the surface of the proposed fill and connected with the tile lines should be placed at intervals throughout the field. The fill material should be porous. "A fill four inches deep of compacted soil may kill a tree as quickly as four feet of loose material," said Mr. Higgins. If the tile field is installed properly and porous material is used in the fill, a tree often develops a new system of roots near the surface. When roots are severed, if hormones are applied to the cut surfaces and soil containing hormones is used as backfill, new root growth is accelerated.

When trees along highways are affected by grade changes, their value seldom justifies the cost of installing tile fields and wells and the subsequent expenditures for maintenance necessary for their survival. Generally, it is better to remove the trees and replant on the new grade. In all cases, when attempting to save trees affected by grade changes, the value of the tree should be weighed against the cost of measures necessary to save it, and also against the cost of replacement. Privately owned trees sometimes have a sentimental value far in excess of their actual worth, however, Mr. Higgins warned. "No one other than the owner can set a true value on his trees," he added, "and all the facts should be known before attempting to evaluate any tree."

Preventing Fruit Formation.

Several years ago a memorial research fund was established by the National Shade Tree Conference. The first project undertaken was a study to determine methods of preventing fruit development on such trees as the honey locust, ginkgo and other trees, which except for their abundant fruiting would be desirable for use on streets and lawns. Results of this study were reported by Rich-



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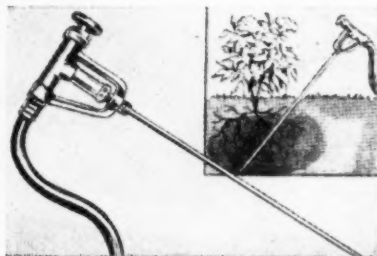
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ard R. Miller, department of horticulture, Ohio State University, Columbus, under the topic, "The Prevention of Fruit Formation on Some Ornamental Trees."

The species treated included Norway maple, horse chestnut, ailanthus, catalpa, European ash, ginkgo, honey locust, sweet gum, mulberry, London plane and poplar. Treatment consisted of spraying the trees with dinitro compounds, naphthalenacetic acid, maleic hydrazide and various other chemicals. Varying results were obtained.

Sprays applied to Norway maple prevented fruiting, but reduced the size of the leaves; on horse chestnut the formation of fruit was prevented and the flowering period extended. Chemicals sprayed on ailanthus at full bloom reduced fruit set about eighty-seven per cent. On white or red mulberry sprays applied did not reduce the amount of fruit set without injuring the foliage. Spray applications were effective on poplar, but produced no results on sweet gum.

Mr. Miller pointed out that the data gathered so far covered the work done over a 2-year period only and that further research was necessary before recommendations could be made for commercial use. Progress made to date was encouraging, he said, for it had been proved that the formation of fruit on some half-dozen tree species could be prevented.

Turf Problems.

Dr. Fred V. Grau, of the United States Golf Association greens section, Plant Industry Station, Beltsville, Md., in discussing "Turf Problems in Tree Areas," said that, since grass and trees compete for sunlight, soil nutrients and water, grass could be grown successfully in tree areas only if the trees were held somewhat in check. This might consist of thinning or pruning operations to admit sunlight to the grass, or in removing tree roots which, growing just below the soil's surface, use moisture and food needed by the grass.

Grasses mentioned as being suitable for use in shaded areas, within their climatic ranges, include the following: St. Augustine grass, Chewings fescue, creeping red fescue, Poa trivialis, Poa annua, orchard grass, zoysia grass and the bent grasses. Of the newer strains of fescue, the Illahee, Trinity or Oregon, and Pennsylvania strains are considered satisfactory for use in shaded locations. Moisture, soil composition and nutrients contained in the soil are factors that must be considered in the selection of grasses, for

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most species have rather definite site requirements.

Dr. Grau made several recommendations pertinent to the establishment and care of lawns in tree-shaded areas. One mistake commonly made is that of sowing grass seeds in the spring. It is much better, he said, to sow in the fall. It usually is difficult to establish and maintain a good lawn under Norway maple trees, but Dr. Grau cited one case where this was done successfully by seeding with rye grass in the spring and with Chewings fescue the following fall. In the autumn fallen tree leaves should be removed from the lawn, for they form a thick, smothering layer over the grass and provide ideal conditions for the growth of various turf diseases. When moss develops in shaded lawns, it can be eradicated by a heavy application of fertilizer.

In commenting on the development of new lawn grasses, Dr. Grau said that B-27 bluegrass was one of the most promising. This grass is resistant to heat and disease, it forms a turf that will withstand heavy usage and its range may exceed that of Kentucky bluegrass. As soon as sufficient seeds are available this grass will be released to commercial growers.

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the roots of plants," declared Dr. Gotthold Steiner, division of nematology, U. S. D. A. Plant Industry Station, Beltsville, Md., as he addressed conference delegates on "Boxwood Nematode Control." Nematodes act as a drag on affected plants, he continued, except in the case of seedlings, where they may cause actual death.

A boxwood plant attacked by nematodes exhibits signs of lowered vitality and general evidence of ill health. Roots develop witches'-broom formations and slough off. A dense mass of roots develops. It is thought that secretions from the salivary glands of nematodes may poison the root system. "When the roots die and begin to decay, the nematodes move out," observed Dr. Steiner, "for they feed only on healthy tissue."

It is extremely difficult to explore the life of nematodes, said Dr. Steiner, because they are very small. However, it is known that they possess all the functional organs usually associated with the higher forms of insect life. The first nematode attack on boxwood was discovered in 1939. It has been learned since that some fifteen different genera of nematodes will attack box, but the common root knot nematode has been found on this plant only four times.

In attempting to control nematodes, Dr. Steiner advised that the best method consisted of practicing sanitation in propagation, and fumigation of the planting site. Some of the newer chemicals appear promising in control work, Dr. Steiner said.

Insect Control.

In speaking on "Control of Some Troublesome Insects," Dr. Ernest N. Cory, of the department of entomology, University of Maryland, College Park, stated that insect control is increasing in importance because homeowners are becoming more tree-conscious and want their trees to present a good appearance at all times.

Listing a number of injurious insect pests, Dr. Cory discussed methods of control. For elm leaf beetle he suggested arsenate of lead rather than some of the newer, more powerful insecticides, because of the possibility of a great increase of red spider mites when these latter chemicals are used. Tetraethyl pyrophosphate and Parathion are effective against mites, but should be used with extreme caution because of their high toxicity to animal life. Parathion, he warned, is not a panacea for all insects. Sulphur and oils are also effective against mites, but may cause some foliage injury or stain painted surfaces. DDT, properly applied, gives good control

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of thrips and the olive scale that infest privet and may be used with good results on the pit-making oak scale and many other insects. For the control of euonymus scale Dr. Cory recommended oil sprays.

Tree Cavities.

Using lantern slides in natural color to illustrate his discussion of "The Cause and Treatment of Tree Cavities," Dr. D. S. Welch, of the department of plant pathology, Cornell University, Ithaca, said that sealing a tree cavity might retard progress of the decay, but that it was almost impossible to eradicate well established, decay-causing fungi from an infected tree. Fungi developing within the heartwood of a tree may extend several inches to several feet beyond any visible sign of decay, and surgical operations usually fail to remove all the disease.

Though insects, rodents and birds may hasten the destruction of rotting wood tissue, thus enlarging cavities, fungi are responsible for initial decay. Fungus spores gain entrance to the inner tree tissues through exposed surfaces of broken branches, frost-cracks, pruning scars, fire burns or wounds of any nature that penetrate the bark. Not all fungi behave alike; some grow in the sapwood, others in the heartwood of trees. Factors that influence the growth of fungi include species and age of the tree, amount of available air and moisture. Air is presumed to be the limiting factor of fungus growth, Dr. Welch said, fungi causing decay near the surface requiring a plentiful supply, but the fungi responsible for heartwood rot needing very little. Older trees generally are more susceptible to attack, but heart rot has been found in nursery stock less than 4 years of age.

Declining to comment on the relative merits of filling tree cavities with concrete or other material, as opposed to open cavity treatment, Dr. Welch listed general requirements in treating cavities:

1. As much as possible of the decayed wood should be removed.
2. Nothing that will cause injury to the tree should be done.
3. Surgical operations should not be so extensive that the strength of the tree is lessened.
4. The wound should be sealed against the entrance of fungi.
5. The treatment should be permanent in nature.
6. The tree, following treatment, should present an acceptable appearance.

E. P. Alden, secretary of the New Jersey Federation of Shade Tree Commissions, Kearny, N. J., presented

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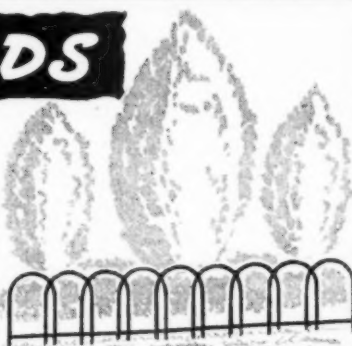
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a brief paper on "Treatment of Old Silver Maples and Other Decadent Trees on Our Streets," advising that common sense must be used in treating such trees. Pruning, fertilizing and other arboricultural practices often are justifiable and serve to prolong the life of old trees.

Dr. O. N. Liming, bureau of entomology and plant quarantine, U. S. D. A., Bloomfield, N. J., led a discussion on "Specifications for Tree Work" and called upon several conference delegates for expression of opinion. Topics discussed covered a wide range and included ethics in arboriculture, mental and physical qualifications desirable in men seeking employment and various phases of the work commonly performed by practicing arborists.

Symposium on Shade Trees.

In a symposium on shade trees, Dr. Curtis May, division of forest pathology, U. S. D. A., Beltsville, Md.; Dr. George Langford, department of entomology, University of Maryland, College Park, and Dr. Henry T. Skinner, Morris Arboretum, Chestnut Hill, Pa., discussed three species—sugar maple, honey locust and scarlet oak—from the standpoint of use, planting, maintenance and pest control. Species characteristics which should be considered in evaluating these trees for use along streets and in lawn areas were summarized as follows:

The sugar maple develops a large dense crown with heavy foliage; it has excellent fall color, will grow well in shade when young, is not difficult to transplant and seldom suffers storm damage. It is comparatively thin-barked and subject to fire damage at the base, sun scorch and frost-crack. Its shallow root system and dense foliage make it difficult to grow grass under the tree. It is subject to attacks by cottony maple scale, borers, verticillium wilt, leaf spot and various other insect and disease pests. Dr. May warned that diseases could not be controlled simply by raking and burning the leaves.

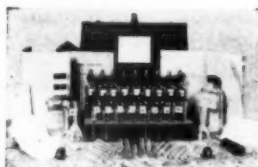
The thornless honey locust is often used for ornamental plantings. It has an open crown and an irregular branching habit. It is resistant to soot, smoke and dust and grows well even under adverse city conditions. Because of its fruiting habit, honey locust is often considered a dirty tree and not desirable for use where this is an important factor. Dr. Skinner said that, despite the honey locust's being a member of the family leguminosae, root nodules containing nitrifying bacteria are not produced on the roots, and, therefore, no soil

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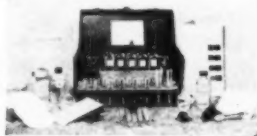
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enrichment occurs. Along the southern Atlantic seaboard mimosa webworm causes serious damage to honey locust, and there is a possibility that this pest may extend its present range. A disease about which little yet is known appears to be attacking honey locust in some sections.

The scarlet oak is hardy and grows rapidly within its range, which extends from Maine to Minnesota and south to Alabama. It is particularly useful as an ornamental because of the brilliant scarlet fall coloration of its foliage. It has no serious insect enemies. It is subject to several diseases, the most serious of which is the oak wilt disease, caused by the fungus, *Chalara quercina*.

Municipal Forestry.

Problems pertaining to municipal forestry were discussed in an evening meeting that was well attended by city foresters and others interested in the planting and maintenance of trees in public areas. With Edward H. Scanlon, commissioner of the division of shade trees, Cleveland, O., as chairman, the discussion centered on the need for selecting and propagating tree species suitable in respect to size, shape and growth habit for use along city streets. It was generally agreed that many species commonly used as street trees present increasingly serious maintenance problems as they approach maturity. Dr. Ernst Schreiner, U. S. D. A., Beltsville, Md., suggested that selection alone would not result in adequate improvement; that tree breeding based on specific requirements of shape, size and environment also was needed. In speaking of propagation, Prof. F. L. O'Rourke, department of horticulture, Michigan State College, East Lansing, pointed out that strains possessing desirable features lacking in the parent species often can be developed by using care in selecting wood cuttings for propagation purposes. In elaboration of his statement, he cited the fact that thornless honey locust can be grown from cuttings taken from the sparsely thorned top branches of thorned trees. Mr. Scanlon urged that city foresters acquaint nurserymen with their need of trees that are hardy in city conditions and particularly adapted for use in narrow parkways.

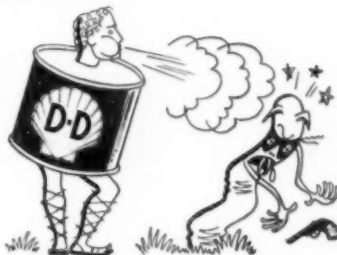
Plant Clinics.

The two one-hour plant clinics, held Thursday and Friday and led by Dr. Clyde C. Hamilton, department of entomology, New Jersey agricultural experiment station, New Brunswick, N. J., and Dr. D. S. Welch, department of plant pathol-

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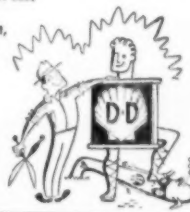
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ogy, Cornell University, were conducted by the question-and-answer method. The subjects brought up for consideration covered a wide range in the field of shade tree maintenance, but particular interest was shown in discussions concerning the use of DDT and other new insecticides. It was reported that DDT sprays applied over forest areas from airplanes, primarily for the control of sawfly, were effective against cankerworm. DDT applied to the soil and raked or otherwise dug in was suggested for use against taxus weevil. Benzene hexachloride was recommended for control of the white-fringed beetle. Mention was made of the fact that ash trees are dying in many sections of the country, often without visible evidence of injury. In several specific cases fungi were reported as being responsible, but some doubt appeared to exist as to the cause of the general decline of these trees.

Business Session.

At the business meeting it was announced that the twenty-sixth meeting of the National Shade Tree Conference would be held in August, 1950, at Syracuse, N. Y. Following the report given by Secretary-treasurer L. C. Chadwick, reports by chairmen of the several standing committees were presented. Dr. Curtis May, chairman of the memorial research fund committee, outlined plans for future research, and President Armstrong urged that all conference members give financial support to this committee in order that its work could be continued without interruption. Dr. O. N. Liming, chairman of the nomenclature and standards committee, said that a booklet on approved arboriculture terminology was being prepared.

After a brief discussion, members of the conference unanimously approved a resolution urging the establishment of research by federal agencies on the oak wilt disease. It stated that within the past few years there has appeared in midwestern states a specific new disease of oaks known generally as oak wilt, known to be caused by a parasitic fungus, *Chalara quercina*, which rapidly kills every native species of oak important both as ornamentals and as lumber-producing trees. Since it is not known how or by what means this disease is spread from tree to tree and from place to place, or how oak trees may be protected from its ravages, the resolution urged that a special research program be initiated by proper federal research agencies further to study this disease and that a distinct and definite appropriation of funds

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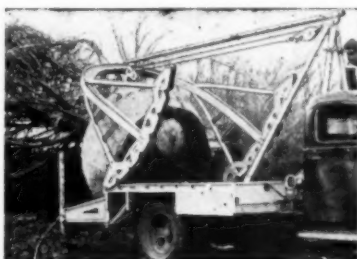
be made for the purpose of establishing and carrying these studies to a successful conclusion.

A beautifully made gavel was presented to the National Shade Tree Conference by the American Association of Nurserymen. The gavel was fashioned of wood from the famous Washington elm, which, until its death and subsequent removal about a year ago, stood on the grounds of the national Capitol. The wood was made available through the courtesy of David Lynn, architect of the Capitol.

The annual banquet was, as usual, well attended and thoroughly enjoyed by the members. A feature of the evening's program was the introduction of past presidents of the conference and the presentation of a scroll to each in recognition of his services.

Through the cooperation of twenty-eight manufacturing firms and distributors, hand tools, powered equipment, supplies and materials used in arboricultural work were on display throughout the conference in the hallway leading to the meeting room. The use of saws, sprayers and other equipment, and safety measures that should be employed in tree climbing, pruning and other arboricultural operations were demonstrated in a field day spent in the Crimea section of Leakin park.

The excellent educational exhibit obviously interested conference members. Shade tree insects and fungi in the form of mounted specimens and photographs were on display. Included also in the exhibit were living



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plant materials, plant products and educational pamphlets. Contributors included the Holly Society of America; the U. S. D. A. agencies, bureau of entomology and plant quarantine, division of forest pathology and bureau of plant industry, soils and agricultural engineering; the departments of horticulture, forestry and entomology of the University of Maryland; the National Arborist Association, and the memorial research committee of the National Shade Tree Conference.

Items of particular interest to many were the tree branch specimens showing the effects of sprays to prevent fruiting, the excellent display of shade tree insect pests and the potted living specimen of metasequoia, or dawn redwood, a plant species which until a few years ago was believed to be extinct.

HONOR DR. NIELS HANSEN.

A monument erected in recognition of Dr. Niels Ebbeson Hansen, professor emeritus of South Dakota State College, Brookings, was unveiled in ceremonies August 25 at the Coolidge Sylvan theater on the college campus. The monument is of native stone measuring approximately four and one-half feet in height and the same in width. The 26-inch base bears a bronze inscription which reads:

"South Dakota State College seeks to perpetuate the memory of its long-time fruit and plant breeder: Niels Ebbeson Hansen.

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Included on the program was an address by Gov. George T. Mickelson of South Dakota. Brief congratulatory talks were given by H. L. Lantz, Iowa State College, Ames; Dr. Joseph H. Schultz, North Dakota Agricultural College, State College; Dr. W. A. Alderman, University of Minnesota, Minneapolis, and H. N. Bybvig, president, South Dakota Horticultural Society.

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